

# INDUSTRIAL PANEL PC

## Industrial Panel PC

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# Industrial Panel PC

## Overview

As technology evolves and regulatory demands significantly increase, modern factories not only need a track of processes but a visualization of each production important step. Dozen of data collected throughout each shift requires a screen to display production status and a dashboard for better control and process optimization. Optimized processes facilitate reduced total cost of ownership, minimized time-to-market and enhanced quality.

Winmate provide a wide range of panel PC and human-machine interfaces for factory or building automation, machine control, point-of-information kiosks, hospitality, or air traffic control.

### Our industrial panel PC include:

- The latest Android™, Windows® or Linux operating system
- Various housing options: panel mount, open frame, chassis
- Durable design

Simply select the optimum display size for your application, choose processing power and interfaces to design the most suitable solution.



## Stainless Series with Push-Buttons

Winmate develops the solutions using cutting-edge technologies that help overcome different automation challenges you may encounter in Food, Chemical, Pharmaceutical Industries.

### Push-Button Front Panel

Push-buttons bring control and indication directly to the work area, eliminating wasted movement and increasing productivity. In addition, the physical buttons are especially needed for critical tasks like emergency shutdowns. When an emergency situation occurs, we don't want to waste time navigating through HMI screens but a simple and quick way to shut down the process.

### Adjust 3 Touch Modes Easily by Turning the Knob Hand Mode

Thanks to the PCAP technology the series delivers excellent responsive performance by supporting multi-touch and allowing for anyone to operate it easily with fingers.

#### Rain Mode

The Rain Mode is not affected by the presence of water and allows users to continue working in wet environments and inclement weather.

#### Glove Mode

This mode works not only with thin gloves like some inferior devices, but also with heavy work-gloves.



### Waterproof USB Type-A Connector on Front Panel

The device is pre-built with a handy and waterproof USB Type-A connector on the front panel to allow users to plug in peripherals in an easy way.

### Full IP65 Rated SUS316 Stainless Steel Enclosure

The device features a SUS316 Stainless Steel housing with full IP65 compliance to be water and dust proof, meaning it can withstand overall splashing conditions, suitable to be deployed in Food, Pharmaceutical Industries or harsh environments with strict hygiene demands.









## Product Guide-Featured Industrial Panel PC

Our product guide helps you to navigate and find the right product from our excessive product line.

### x86 Panel PC and HMI

			
<b>Stainless Series Panel PC</b>	<b>E Series HMI</b>	<b>M Series HMI</b>	<b>PO Series HMI</b>
p.17	p.31	p.37	p.42
			
<b>S Series HMI</b>	<b>Kaby Lake Series Panel PC</b>	<b>Bay Trail Series Panel PC</b>	<b>G-WIN Series Panel PC</b>
p.55	p.63	p.69	p.85

### Arm Panel PC and HMI

			
<b>E Series HMI</b>	<b>EL Series HMI</b>	<b>PT Series HMI</b>	<b>S Series HMI</b>
p.33	p.35	p.52	p.58
			
<b>Arm Series Panel PC</b>	<b>G-WIN Series Panel PC</b>		
p.77	p.91		

# 10.1"~21.5" x86 Stainless Panel PC Stainless Series with Push Buttons

NEW



“**SPEED UP RESPONSE TIME IN  
EMERGENCY SITUATIONS.**”

- 10.1~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7, Ubuntu 16.04

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SUS316 stainless steel

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Waterproof connectors

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4 GB DDR3 1600 MHz

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64 GB mSATA SSD

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USB 2.0, RJ45 for Ethernet, RS232

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Flat push buttons (red, blue, green), emergency stop button

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Supports VESA mount, yoke mount

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IP65 waterproof and dustproof

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Operating temperature 0°C to 45°C

## Accessories

### Standard

100~240V AC to DC adapter with power cord	External USB+LAN cable	External COM cable	Waterproof caps
RJ45 female-female converter	VESA screws	Driver CD & Manual	

## Custom configuration



Memory



Wide Power Input



Bluetooth



Wi-Fi

## Application



### Factory Automation

“VANDAL RESISTANT,  
STYLISH HMI  
CONTROLS IN HARSH  
ENVIRONMENTS.”

Winmate's all-new 17" panel PC with push buttons were installed inside machine-control terminals in the factory operating in the food and beverage industry. Push buttons on the HMI terminal provide excellent tactic feedback that is necessary in emergency situations.



# x86 IP69K Stainless Series with Push Buttons

Intel® Celeron® N2930

NEW



NEW



NEW



NEW



Model Name	10.1" (16:9)	15"	19"	21.5" (16:9)
	W10IB3S-SPH1-B	R15IB3S-SPC3-B	R19IB3S-SPM1-B	W22IB3S-SPA3-B
<b>Display</b>				
Resolution	1024 x 600	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	450 nits	250 nits	250 nits	250 nits
Contrast Ratio	800:1 (Typ.)	2000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Viewing Angle	-75~80(H);-80~80(V)	-88~88(H);-88~88(V)	-85~85(H);-85~85(V)	-89~89(H);-89~89(V)
Display Color	16.7M	16.2M	16.7M	16.7M
<b>System</b>				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB	1 x SODIMM, Max 8GB DDR3 1600 MHz, default 4GB
Storage	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB	Default 1 x mSATA SSD 64GB
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)	1 x mPCIe slot(for half size Wifi module)
Network	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT	2 x Intel® Ethernet Controller I210-AT
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux Ubuntu 16.04 (Optional)
<b>Connectors</b>				
Push-button	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension	2 x M12 waterproof connector for push-button extension
Ethernet LAN	-	1 x waterproof Giga LAN RJ45 connector	1 x waterproof Giga LAN RJ45 connector	1 x waterproof Giga LAN RJ45 connector
COM	1 x M12 waterproof connector for RS232	1x M12 waterproof connector for RS232	1 x M12 waterproof connector for RS232	1x M12 waterproof connector for RS232
USB	1 x M12 waterproof connector for 1 x USB2.0 & Giga LAN RJ45	1 x M12 waterproof connector for 2 x USB2.0 1x USB type-A waterproof connector at front side	1 x M12 waterproof connector for 2 x USB2.0 1 x USB type-A waterproof connector at front side	1 x M12 waterproof connector for 2 x USB2.0 1 x USB type-A waterproof connector at front side
Power Input	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC	1 x M12 waterproof connector for 12V DC
<b>Mechanical</b>				
Housing	Stainless Housing	Stainless Housing	Stainless Housing	Stainless Housing
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (200 x 100 mm)
<b>Environment</b>				
Operating Temp.	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
IP Proof	IP65	IP65	IP65	IP65
<b>Certifications</b>				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

## Custom configuration



Memory



Storage



AR Glass

## Application



### Drug Manufacturing Process

“ENABLES CHEMICAL MANUFACTURING DIGITIZATION.”

Consists of SUS316 stainless steel, the housing is full IP69K-rated water, dust and corrosion-proof, with standing extensive wash downs with corrosion resistance against cleaning agents, especially against close-range high-pressure, high temperature wash downs.

# 15"~23.8" x86 Stainless Panel PC IP69K Stainless P Series with Conduit Pipe

NEW



“**BUILT FOR OPERATIONS IN HARSH ENVIRONMENTS WITH STRICT HYGIENE DEMANDS.**”

- 15"~23.8" PCAP touchscreen
- Intel® Core™ i5-7200U
- Windows 10 / Ubuntu 18.04

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SUS316 stainless steel

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Waterproof sealed conduit pipe

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4GB DDR4 2133

---

64GB B-key M.2 2242

---

USB 3.0

---

RS232

---

RJ45 for Ethernet

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Supports VESA mount, panel mount and Yoke mount

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IP69K waterproof and dustproof

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Operating temperature 0°C to 45°C

## Accessories

### Standard

Waterproof Conduit 1.5m

Elbow for connecting the conduit

AC to DC power adapter with power cord

Open wire cable for phoenix connector

### Optional

Yoke mount stand kit

# x86 IP69K Stainless P Series with Conduit Pipe

Intel® Core™ i5-7200U



Model Name	15"	19"	21.5" (16:9)	23.8" (16:9)
	R15IK3S-SPC369-P	R19IK3S-SPM169-P	W22IK3S-SPA369-P	W24IK3S-SPA269-P
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080
<b>Panel Brightness</b>	250 nits	350 nits	250 nits	250 nits
<b>Contrast Ratio</b>	2000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
<b>Viewing Angle</b>	-88~88(H);-88~88(V)	-85~85(H);-80~80(V)	-89~89(H);-89~89(V)	-89~89(H);-89~89(V)
<b>Display Color</b>	16.2M	16.7M	16.7M	16.7M
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>Memory</b>	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)	4GB DDR4 2133 (Optional up to 16GB)
<b>Ethernet Controller</b>	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
<b>Storage</b>	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)	64GB B-key M.2 2242 (Optional up to 512GB)
<b>Audio</b>	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>BIOS</b>	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
<b>OS</b>	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)	Windows 10 IoT Enterprise (Option) Ubuntu 18.04 (Option)	Windows 10 IoT Enterprise (Optional) Ubuntu 18.04 (Optional)
<b>Connectors</b>				
<b>Serial</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>USB</b>	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>HDMI</b>	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output
<b>Mechanical</b>				
<b>Dimension</b>	356 x 280 x 56mm	445 x 370 x 56mm	531 x 322 x 56mm	600 x 369 x 56mm
<b>Environment</b>				
<b>Operating Temp.</b>	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45 °C
<b>Humidity</b>	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>IP Proof</b>	IP69K	IP69K	IP69K	IP69K
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 10.4"~21.5" x86 Stainless Panel PC

## IP69K Stainless PCAP Chassis

### Custom configuration



Memory



AR Glass



Glove Mode



Mini PCIe  
SSD



Storage



“

**WITHSTANDS HIGH  
PRESSURE WASHDOWNS.  
EASY-TO-CLEAN.**

”

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel® Core™ i5-7200U
- Windows 10/8/7

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4GB DDR3L 1600

---

64GB mSATA SSD

---

USB A-Type

---

RS232

---

RJ45 for Ethernet

---

VESA mount, yoke mount

---

SUS316 stainless steel

---

Power input 12V DC, lockable power jack

---

IP69K waterproof and dustproof

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Operating temperature 0°C to 45°C

### Accessories

#### Standard

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AC Adapter      Power Cable      Power Converter Cable      RS232 Cable      VESA Screws

#### Optional

---

USB Cable for Touch

### Application



#### Production Line Machine Controller

“FAST PRODUCT  
DEPLOYMENT IN THE  
FACTORY!”

Sealed to IP69K Winmate's  
15" stainless panel PC  
was deployed as a machine  
controller in the biscuit  
production line.



# x86 IP69K Stainless PCAP Chassis

Intel® Core™ i5-7200U



Model Name	15"	19"	21.5" (16:9)
	R15IK3S-SPC369	R19IK3S-SPM169	W22IK3S-SPA369
<b>Display</b>			
Resolution	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits
Contrast Ratio	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
<b>System</b>			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB
Storage	64GB M.2 B Key SATA III SSD (Options up to 256GB)	64GB M.2 B Key SATA III SSD (Options up to 256GB)	64GB M.2 B Key SATA III SSD (Options up to 256GB)
Ethernet Controller	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
Serial Interface	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB
Power	1 x Locable Power Jack	1 x Locable Power Jack	1 x Locable Power Jack
<b>Mechanical</b>			
Dimensions	378 x 301 x 56.4 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.)	56W (Typ.)	66W (Typ.)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# x86 IP69K Stainless PCAP Chassis

Intel® Celeron® N2930



Model Name	10.4"	15"	19"	21.5" (16:9)
	R10IB3S-SPT269	R15IB3S-SPC3	R19IB3S-SPM1	W22IB3S-SPA3
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1024 x 768	1280 x 1024	1920 x 1080
<b>Panel Brightness</b>	350 nits	250 nits	250 nits	250 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
<b>Active Area</b>	304.1 x 228.1	304.1 x 228.1	376.32 x 301.06	476.64 x 268.11
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>	16.2M	16.2M	16.7M	16.7M
<b>Touch</b>	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Memory</b>	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)	1 x SODIMM, DDR3L 1600 (Default 4GB)
<b>Storage</b>	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB)
<b>Ethernet Controller</b>	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
<b>OS</b>	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>Serial Interface</b>	1 x RS232	1 x RS232	1 x RS232	1 x RS232
<b>LAN</b>	1 x LAN	1 x LAN,	1 x LAN	1 x LAN
<b>USB</b>	2 x USB	2 x USB	2 x USB	2 x USB
<b>Power</b>	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
<b>Mechanical</b>				
<b>Dimension</b>	289 x 246 x 49.9 mm	378 x 301 x 56.4 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
<b>Operating Temp.</b>	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
<b>Humidity</b>	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
<b>IP Proof</b>	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve
<b>Mounting</b>	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>	33W (Typ.)	38W (Typ.)	45W (Typ.)	56W (Typ.)
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

## 10.4"~19" x86 Stainless Panel PC

# IP67 Resistive Chassis



“ **SCRATCH RESISTANT TOUCH SCREEN.** ”

- 10.4"~19" resistive touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

---

4GB DDR3L 1600

---

64GB mini PCIe SSD

---

USB Type-A

---

RS232

---

RJ45 for Ethernet

---

SUS316 stainless steel

---

VESA mount, yoke mount

---

Power input 12V DC, lockable power jack

---

IP67 waterproof and dustproof

---

Operating temperature 0°C to 45°C

---

## Accessories

### Standard

AC Adapter    Power Cable    RS232 Cable    Ethernet Cable    USB Cable    VESA Screws

## Custom configuration



Memory



2.5" HDD



PCAP  
Touchscreen

## Application



### Self-Order Kiosk

“SPEED UP ORDERS AND INCREASE CUSTOMER SATISFACTION.”

Sealed to IP67, Winmate's 19" panel PC now accept orders in a french fast food chain. After busy days, the operator uses water to clean the surface to meet the requirements of food safety authorities.

# x86 IP67 Resistive Chassis

Intel® Celeron® N2930



Model Name	10.4" TFT	15"	19"
	R10IB3S-67T2ST	R15IB3S-67C3ST	R19IB3S-67A1ST
<b>Display</b>			
<b>Resolution</b>	1024 x 768	1280 x 768	1280 x 1024
<b>Panel Brightness</b>	350 nits	250 nits	400 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Active Area</b>	210.4 x 157.8	304.1 x 228.1	376.32 x 301.056
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88(V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.2M	16.2M	16.7M
<b>Touch</b>	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)
<b>System</b>			
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS
<b>Memory</b>	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB
<b>Storage</b>	Mini PCIe SATA II SSD (Default 64GB) max. 512GB	Mini PCIe SATA II SSD (Default 64GB) max. 512GB	Mini PCIe SATA II SSD (Default 64GB) max. 512GB
<b>Ethernet Controller</b>	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>			
<b>Serial Interface</b>	1 x RS232	1 x RS232	1 x RS232
<b>LAN</b>	1 x LAN	1 x LAN	1 x LAN
<b>USB</b>	2 x USB	2 x USB	2 x USB
<b>Power</b>	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
<b>Mechanical</b>			
<b>Dimensions</b>	311 x 257 x 46.4 mm	381.8 x 310 x 56.4 mm	457.4 x 370 x 61.9 mm
<b>Operating Temp.</b>	0°C to 45°C	0°C to 45°C	0°C to 45°C
<b>Humidity</b>	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
<b>Net Weight</b>	7.1 kg	7.3kg	10.2kg
<b>IP Rating</b>	Full IP67	Full IP67	Full IP67
<b>Mounting</b>	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
<b>Power</b>			
<b>Power Input</b>	12V DC	12V DC	12V DC
<b>Power Consumption</b>	33W (Typ.)	38W (Typ.)	45W (Typ.)
<b>Certifications</b>			
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC



10.4"~21.5" x86 Stainless Panel PC

# IP65 Stainless PCAP Chassis



“ **STAINLESS RUST PROOF HOUSING.** ”

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel® Core™ i5-7200U
- Windows 10/8/7

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4GB DDR3L 1600

---

64GB mini PCIe SSD

---

USB Type-A

---

RS232

---

RJ45 for Ethernet

---

SUS316 stainless steel

---

VESA mount, yoke mount

---

Power input 12V DC, lockable power jack

---

IP65 waterproof and dustproof

---

Operating temperature 0°C to 45°C

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## Accessories

### Standard

AC Adapter

Power Cable

RS232 Cable

Ethernet Cable

USB Cable

VESA Screws

## Custom configuration



Memory



PCAP  
Touchscreen



AR Glass



Glove Mode

## Application



### Automatic Sorting Line

“MAKES SORTING FASTER  
AND MORE ACCURATE.”

New fully automated parcel sorting station now has a waterproof IP65-rated panel PC that helps operator to visualize the status and package distribution within the sorting station.

# x86 IP65 Stainless PCAP Chassis

Intel® Core™ i5-7200U



Model Name	15"	17"	19"	21.5" (16:9)
	R15IK3S-SPC3	R17IK3S-SPM1	R19IK3S-SPM1	W22IK3S-SPA3
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
<b>Panel Brightness</b>	250 nits	350 nits	250 nits	250 nits
<b>Contrast Ratio</b>	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
<b>Active Area</b>	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
<b>Viewing Angle</b>	-88~88 (H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>	16.2M	16.7M	16.7M	16.7M
<b>Touch</b>	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>BIOS</b>	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
<b>Memory</b>	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB	1 x DDR4 2133MHz 4GB (Default), max. 16GB
<b>Storage</b>	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB	2.5" HDD/M.2 SSD (Default 64GB) max. 512GB
<b>Ethernet Controller</b>	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>				
<b>Serial Interface</b>	1 x RS232	1 x RS232	1 x RS232	1 x RS232
<b>LAN</b>	1 x LAN	1 x LAN	1 x LAN	1 x LAN
<b>USB</b>	2 x USB	2 x USB	2 x USB	2 x USB
<b>Power</b>	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
<b>Mechanical</b>				
<b>Dimensions</b>	378 x 301 x 56.4 mm	412 x 344 x 61.3 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
<b>Operating Temp.</b>	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
<b>Humidity</b>	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Full IP65	Full IP65	Full IP65	Full IP65
<b>Mounting</b>	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>	52W (Typ.)	56W (Typ.)	56W (Typ.)	66W (Typ.)
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 IP65 Stainless PCAP Chassis

Intel® Celeron® N2930



Model Name	10.4"	15"	17"	19"	21.5" (16:9)
	R10IB3S-SPC3	R15IB3S-SPC3	R17IB3S-SPM1	R19IB3S-SPM1	W22IB3S-SPA3
<b>Display</b>					
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88(H); -88~88(V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
<b>System</b>					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB	1 x SODIMM, DDR3L 1600 (Default 4GB) max. 8GB
Storage	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SATA II SSD (Default 64GB) max. 512GB
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>					
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232	1 x RS232
LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN	1 x LAN
USB	2 x USB	2 x USB	2 x USB	2 x USB	2 x USB
Power	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
<b>Mechanical</b>					
Dimensions	289 x 246 x 49.9 mm	378 x 301 x 56.4 mm	412 x 344 x 61.3 mm	467.4 x 392 x 56.6 mm	541 x 337 x 53 mm
Operating Temp.	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
Humidity	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Proof	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	43W (Typ.)	45W (Typ.)	56W (Typ.)
<b>Certifications</b>					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 IP65 Stainless Chassis

Intel® Celeron® N2930



Model Name	15"	15"	17"	19"	21.5" (16:9)
	R15IB3S-65A1FTP	R15IB3S-65C3	R17IB3S-65M1	R19IB3S-65M1	W22IB3S-65A3
<b>Display</b>					
<b>Resolution</b>	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
<b>Panel Brightness</b>	500 nits	250 nits	350 nits	250 nits	250 nits
<b>Contrast Ratio</b>	2500:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
<b>Active Area</b>	304.1 x 228.1	304.1 x 228.1	337.9 x 270.4	376.3 x 301.1	476.7 x 268.1
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-70~70(H); -65~60(V)	-85~85(H); -80~80(V)	-85~85(H); -80~80(V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>	16.2M	16.2M	16.7M	16.7M	16.7M
<b>Touch</b>	Projected Capacitive	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass
<b>System</b>					
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Memory</b>	1x SO-DIMM DDR3L 1066/1333 MHz (Default 4GB, max. 8GB)	1 x SODIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)	1 x SO-DIMM, DDR3L 1600 (Default 4GB, max. 8GB)
<b>Storage</b>	2.5" HDD/SSD (Default 64GB) max. 512GB	2.5" HDD/ Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/Mini PCIe SSD (Default 64GB) max. 512GB	2.5" HDD/ Mini PCIe SSD (Default 64GB) max. 512GB
<b>Ethernet Controller</b>	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
<b>Audio</b>	Realtek HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>					
<b>Serial Interface</b>	1 x RS232 (Optional RS422/RS485)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)	4 x RS232 (3 x RS232 internal)
<b>USB</b>	2 x USB Type-A Receptacle	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)	6 x USB2.0 (4 x USB internal)
<b>Mechanical</b>					
<b>Dimensions</b>	396 x 310 x 49 mm	388 x 311 x 61 mm	416 x 350 x 61 mm	460 x 385 x 63 mm	550 x 340 x 65 mm
<b>Operating Temp.</b>	-20°C to 60°C	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
<b>Mounting</b>	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>					
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>	25W (Typ.) (Max.backlight & high CPU load)	38W (Typ.) (Max.backlight & high CPU load)	43W (Typ.) (Max.backlight & high CPU load)	45W (Typ.) (Max.backlight & high CPU load)	56W (Typ.) (Max.backlight & high CPU load)
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC,	CE, FCC	CE, FCC	CE, FCC



# x86 IP65 Stainless Chassis

Intel® Core™ i5-7200U



Model Name	15"	17"	19"	21.5" (16:9)
	R15IK3S-65C3	R17IK3S-65M1	R19IK3S-65M1	W22IK3S-65A3
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
<b>Brightness</b>	250 nits	350 nits	250 nits	250 nits
<b>Contrast Ratio</b>	700:1(Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
<b>Active Area</b>	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
<b>Viewing Angle</b>	-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>	16.2M	16.7M	16.7M	16.7M
<b>Touch</b>	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass	5 Wires Resistive touchscreen or AR Glass
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>BIOS</b>	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
<b>Memory</b>	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)
<b>Storage</b>	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)	64GB M.2 B Key SATA III (Options up to 512GB)
<b>Ethernet Controller</b>	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM	Intel® Gigabit-LAN Controller I211AT + PHY I219LM
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>				
<b>Serial Interface</b>	1 x RS232	1 x RS232	1 x RS232	1 x RS232
<b>USB</b>	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
<b>Mechanical</b>				
<b>Dimensions</b>	384 x 311 x 61 mm	416 x 350 x 61 mm	460 x 385 x 63 mm	550 x 340 x 65 mm
<b>Operating Temp.</b>	0°C to 45°C	0°C to 45°C	0°C to 45°C	0°C to 45°C
<b>Humidity</b>	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Full IP65	Full IP65	Full IP65	Full IP65
<b>Mounting</b>	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>	52W (Typ.), max backlight & high CPU load	56W (Typ.), max backlight & high CPU load	56W (Typ.), max backlight & high CPU load	66W (Typ.), max backlight & high CPU load
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC,	CE, FCC

# 7"~15.6" x86 HMI E Series

## Custom configuration



Memory



“ ELEGANT DESIGN. ”

## Application



### Fruit Sorting and Packaging

“FAST SPEED AND STABLE PERFORMANCE.”

The multi-touch panel PC offered advanced performance, an intuitive user interface. Being connected to the PLC through an Ethernet cable the operator panel ensures faster and more reliable operations.

- 7"~15.6" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

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Fanless cooling system

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64GB mSATA SSD

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USB 3.0, USB 2.0

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RS232/422/485, two RJ45 for Ethernet, HDMI 1.4a

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Panel mount, VESA mount

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Front IP65

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Operating temperature 0°C to 50°C

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## Accessories

### Standard

Mounting Clips and Screws

2pin Terminal Block

AC Adapter

Power Cord

Driver CD

# x86 E Series HMI

Intel® Celeron® N2930



Model Name	7" (16:10)	10.1" (16:10)	15.1"	15.6" (16:9)
	W07IB3S-EHT1	W10IB3S-EHH2	R15IB3S-EHC3	W15IB3S-EHA2
<b>Display</b>				
Resolution	1024 x 600	1280 x 800	1024 x 768	1366 x 768
Panel Brightness	320 nits	350 nits	300 nits	400 nits
Contrast Ratio	1000 : 1 (Typ.)	800 : 1 (Typ.)	700:1 (Typ.)	500 : 1 (Typ.)
Viewing Angle	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>				
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)	2GB DDR3L 1600 SO-DIMM (Optional 4GB)
Storage	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD
Ethernet Controller	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE PoE	Intel® I210-AT GbE
OS	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
Security	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)	Trusted platform module (TPM 1.2)
Utility	Watchdog SDK	Watchdog SDK	Watchdog SDK	Watchdog SDK
<b>Connectors</b>				
Power	1 x DC Jack	1 x DC Jack	1 x DC Jack	1 x DC Jack
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0	1 x USB 2.0, 1 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI port	1 x HDMI1.4a	1 x HDMI1.4a	1 x HDMI 1.4a	1 x HDMI1.4a
<b>Power</b>				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	17 W (Typ.)	19 W (Typ.)	23 W (Typ.)	23 W (Typ.)
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>				
Dimension	184.94 x 127.7 x 44.9 mm	267.42 x 182.14 x 57.6 mm	276.7 x 352.5 x 56.3 mm	421 x 260.6 x 65.5 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount with 4 Mounting Clips	Panel Mount with 8 Mounting Clips	Panel Mount with 10 Mounting Clips	Panel Mount with 10 Mounting Clips
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
<b>Environment</b>				
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
<b>Certifications</b>				
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 7"~15.6" Arm HMI E Series

## Custom configuration



PoE



## Application



## Energy Efficiency Systems

"EASE OF USE,  
DURABILITY AND  
ACCURATE CONTROLS."

Lower operational costs with HMI operator panels installed inside intelligent building to control energy consumption.

“ EASY TO INSTALL.  
ERGONOMIC. COMPACT. ”

- 7"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04, Linux Kernel 4.1.15, QT 5.5

---

Fanless cooling system

---

1GB LPDDR3, 16GB eMMC, Micro SD Card Slot

---

USB 2.0, USB OTG, micro USB for debug

---

RS232/422/485, RJ45 LAN Support PoE, CANBus, micro HDMI

---

Panel mount, VESA mount

---

Front IP65

---

Operating temperature 0°C to 50°C

---

For less I/O demanding applications

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## Accessories

### Standard

Mounting Clips and Screws

2pin Terminal Block

AC Adapter

Power Cord

Driver CD



# Arm E Series HMI

Arm Cortex-A9



Model Name	7" (17:10)	10.1" (16:10)	15.1	15.6" (16:9)
	W07FA3S-EHT1	W10FA3S-EHH2	R15FA3S-EHC3	W15FA3S-EHA4
<b>Display</b>				
<b>Resolution</b>	1024 x 600	1280 x 800	1024 x 768	1920 x 1080
<b>Panel Brightness</b>	320 nits	350 nits	300 nits	300 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
<b>Viewing Angle</b>	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -80~80 (V)	-85~85 (H); -85~85 (V)
<b>Display Color</b>	16.7M	16.7M	16.7M	16.7M
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>				
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Linux Ubuntu 16.04/18.04 (Optional)
<b>Connectors</b>				
<b>Power</b>	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin terminal block
<b>Ethernet</b>	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
<b>Serial Interface</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>USB</b>	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG
<b>Memory Card</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>CAN BUS</b>	1 x CANBUS	1 x CANBUS	1 x CANBUS	1 x CANBUS
<b>HDMI</b>	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
<b>Debug</b>	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug
<b>Power</b>				
<b>Power Input</b>	9~24V DC	12V DC	12V DC	12V DC
<b>Power over Ethernet</b>	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>				
<b>Dimension</b>	184.94 x 127.7 x 44.9 mm	267.42 x 182.14 x 57.6 mm	276.7 x 352.5 x 56.3 mm	421 x 260.6 x 65.5 mm
<b>Mounting</b>	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design
<b>Environment</b>				
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22	Front-IP65 Rear-IP22
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

4.3"~15.6" Arm HMI

# EL Series



## Application



### Utilities Control

"JUST THE RIGHT SIZE FOR OUR APPLICATION."

The ultra-compact HMI with 4.3" Multi-Touch screen makes this solution to be the right fit for machine control and data visualization in the factory floor.

“ **PANEL MOUNT.  
FITS IN CONFINED SPACES.** ”

- 4.3"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04

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Fanless cooling system

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1GB LPDDR3, 8GB eMMC

---

USB 2.0, USB OTG

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RS485, RJ45 for Ethernet

---

Panel mount, VESA mount

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Front IP65

---

Operating temperature -20°C to 50°C

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## Accessories

### Standard

VESA Plate	VESA Mounting Screws	AC Adapter	Power Cord	Driver CD
VESA Desk Stand	VESA Wall Mount Bracket			

# Arm EL Series HMI

Arm Cortex-A9



Model Name	4.3" (16:9)	5" (16:9)	7" (16:9)	10.1" (16:10)	15.6" (16:9)
	W04FA3S-ELT1	W05FA3S-ELT1	W07FA3S-ELT1	W10FA3S-ELH2	W15FA3S-ELA4
<b>Display</b>					
<b>Resolution</b>	480 x 272	1024 x 600	1024 x 600	1280 x 800	1920 x 1080
<b>Panel Brightness</b>	400 nits	300 nits	320 nits	350 nits	300 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	400 : 1 (Typ.)	1000 : 1 (Typ.)	800 : 1 (Typ.)	800 : 1 (Typ.)
<b>Viewing Angle</b>	-75~50 (H); -75~75 (V)	-75~50 (H); -75~75 (V)	-70~75 (H); -75~75 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)
<b>Display Color</b>	16.7M	256k	16.7M	16.7M	262k
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>					
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
<b>Storage</b>	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04/18.04 (Optional)
<b>Connectors</b>					
<b>DC-Input</b>	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin
<b>USB Port</b>	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG	1 x USB 2.0 1 x USB OTG
<b>Ethernet</b>	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
<b>COM Port</b>	1 x RS485	1 x RS485	1 x RS485	1 x RS485	1 x RS485
<b>Power</b>					
<b>Power Input</b>	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation	12~24V DC with isolation
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>					
<b>Dimension</b>	121 x 82 x 49 mm	158 x 116 x 51 mm	185 x 128 x 46 mm	267 x 182 x 47 mm	444 x 285 x 275 mm
<b>Mounting</b>	Panel Mount with 4 Mounting Clips	Panel Mount with 6 Mounting Clips	Panel Mount with 7 Mounting Clips	Panel Mount with 7 Mounting Clips	Panel Mount with 10 Mounting Clips
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
<b>Environment</b>					
<b>Operating Temp.</b>	-20°C to +50°C	0°C to +50°C	-20°C to +50°C	-20°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 10.4"~21.5" x86 HMI M Series

## Custom configuration

Up to  
**16 GB**

Memory

Up to  
**512 GB**

Storage

Up to  
**256 GB**

2nd Storage



## Application



### Outdoor Checkpoint

"BRIGHT SUNLIGHT  
READABLE DISPLAY"

Total solution for access control with customized enclosure for track drivers to enter the territory without times losses even in extreme weather conditions and temperature changes.

“ **MODULAR DESIGN.  
INCREASED FLEXIBILITY.** ”

- 10.4"~21.5" PCAP touchscreen
- Intel® Celeron® N2930
- Intel Atom® E3845
- Intel® Core™ i5-7200U
- Windows 10/8/7

---

Fanless cooling system

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One PCIe x4 expansion slot

---

Two 2.5" SSD bay slots

---

Touchscreen supports glove mode

---

Four USB 3.0

---

HDMI, RS232, RS232/422/485, RJ45 for Ethernet

---

Wide range power input 12-24V DC

---

Wall mount, VESA mount

---

Front IP65

---

Operating temperature 0°C to 50°C

---

## Accessories

### Standard

Mounting Clips

Mounting Screws

AC Adapter

Power Cord

Driver CD

# x86 M Series HMI

Intel® Core™ i5-7200U



Model Name	12"	15"	17"
	R12IKWS-MHM2	R15IKWS-MHC3	R17IKWS-MHM1
<b>Display</b>			
Resolution	1024 x 768	1024 x 768	1280 x 1024
Panel Brightness	500 nits	250 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	2000 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area	245.76 x 184.32	304.1 x 228.1	337.9 x 270.3
Viewing Angle	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Chipset	Intel® HD graphics 620	Intel® HD graphics 620	Intel® HD graphics 620
Memory	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion Slot	1 x PCIe x4	1 x PCIe x4	1 x PCIe x4
Storage	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabit LAN	2 x Gigabit LAN	2 x Gigabit LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	4 x USB3.0	4 x USB3.0	4 x USB3.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in	Line-out, Line-in
<b>User Controls</b>			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators
<b>Power</b>			
Power Input	12V DC with protection Fuse	12V DC with protection Fuse	12V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	322 x 256 x 91 mm	367 x 291 x 80 mm	398.16 x 3350.54 x 94.6 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC



# x86 M Series HMI

Intel® Core™ i5-7200U



Model Name	19"	21.5" (16:9)
	R19IHWS-MHA1	W22IHWS-MHA3
<b>Display</b>		
Resolution	1280 x 1024	1920 x 1080
Panel Brightness	400 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Active Area	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive
<b>System</b>		
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Chipset	Intel® HD graphics 620	Intel® HD graphics 620
Memory	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)	SODIMM DDR4-2133 4GB, option up to 16GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	Insyde BIOS	Insyde BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec
Expansion Slot	1 x PCIe x4	1 x PCIe x4
Storage	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD	Main Storage: default 2.5" 64GB SSD (Optional larger SSD), Second Storage (Optional): internal M.2 64~256GB SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>		
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabit LAN	2 x Gigabit LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	4 x USB3.0	4 x USB3.0
HDMI	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in
<b>User Controls</b>		
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	2 x 2.5" SSD Indicators	2 x 2.5" SSD Indicators
<b>Power</b>		
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>		
Dimension	445.72 x 370.46 x 94.6 mm	530.5 x 322 x 94.2 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless	Fanless
<b>Environment</b>		
Operating Temp.	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
<b>Certifications</b>		
Safety	CE, FCC	CE, FCC

# x86 M Series HMI

Intel® Celeron® N2930  
Intel Atom® E3845



Model Name	10.4"	12.1"	15"
	R10IBWS-MHT2	R12IBWS-MHM2	R15IBWS-MHC3
<b>Display</b>			
Resolution	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	350 nits	500 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	201.4 x 157.8	245.76 x 184.32	304.1 x 228.1
Viewing angle	-88~88 (H) ; -88~88 (V)	-80~80 (H) ; -70~70 (V)	-88~88 (H) ; -88~88 (V)
Display Color	16.2M	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)
Ethernet Controller	Dual Intel® 2210AT GbE LAN	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	Built-in 64GB mSATA SSD (Up to 512GB)	Main Storage : Default 2.5" 64GB SSD, optional for bigger capacity Second Storage (Optional): Internal mSATA 64GB~256GB SSD	Main Storage : Default 2.5" 64GB SSD, optional up to 128GB Second Storage (Optional): internal mSATA 64~256GB SSD
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabite LAN	2 x Gigabite LAN	2 x Gigabite LAN
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB2.0, 1 x USB3.0	4 x USB2.0	4 x USB2.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	-	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	-	Line-out, Line-in	Line-out, Line-in
<b>User Controls</b>			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	1 x storage Indicator	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator
<b>Power</b>			
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	269.5 x 226 x 65.3 mm	301.2 x 231.7 x 68.8 mm	367 x 291 x 80 mm
Mounting	Wall Mount, VESA Mount (75 x 75 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless	Fanless	Fanless
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)	30%-95% (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22	Front-IP65, Rear-IP22
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# x86 M Series HMI

Intel Atom® E3845



Model Name	17"	19"	21.5" (16:9)
	R17IBWS-MHM1	R19IBWS-MHA1	W22IBWS-MHA3
<b>Display</b>			
Resolution	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	400 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Active Area	337.9 x 270.3	376.32 x 301.06	476.64 x 268.11
Viewing angle	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)	Intel Atom® E3845 (2M Cache, 1.91 GHz)
Memory	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)	SODIMM DDR3L-1600 4GB, option up to 8GB (2 slots)
Ethernet Controller	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible	1000 Base-Tx Gigabit Ethernet Compatible
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD	Main : default 2.5" 64GB SSD, optional up to 128GB/Second Storage (Optional): internal mSATA 64~256GB SSD
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
<b>Connectors</b>			
Power	1 x Terminal Block 3pin	1 x Terminal Block 3pin	1 x Terminal Block 3pin
Ethernet	2 x Gigabite LAN	2 x Gigabite LAN	2 x Gigabite LAN
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	4 x USB2.0	4 x USB2.0	4 x USB2.0
HDMI	1 x HDMI Output	1 x HDMI Output	1 x HDMI Output
VGA	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output	1 x D-Sub15 (VGA) Output
Audio	Line-out, Line-in	Line-out, Line-in	Line-out, Line-in
<b>User Controls</b>			
Control Buttons	1 x Reset, 1 x Power	1 x Reset, 1 x Power	1 x Reset, 1 x Power
LED Indicators	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator	1 x 2.5" SSD Indicator
<b>Power</b>			
Power Input	12~24V DC with protection Fuse	12~24V DC with protection Fuse	12~24V DC with protection Fuse
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	398.16 x 330.54 x 79.6 mm	445.72 x 370.46 x 79.6 mm	530.5 x 322 x 45.2 mm
Mounting	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)	Wall Mount, VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	30%-95% at +40°C (Non-condensing, RH)	30%-95% at +40°C (Non-condensing, RH)	30%-95% at +40°C (Non-condensing, RH)
IP Rating	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20	Front-IP65, Rear-IP20
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# 7" ~23.8" x86 HMI PO Series



“ **OPEN FRAME.  
BEST FOR KIOSK  
APPLICATIONS.** ”

- 7" ~23.8" PCAP touchscreen
- 7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3
- Intel® Celeron® N2930
- Windows 10/8/7

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Fanless cooling system

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64GB mSATA SSD

---

2 x Mini PCIe (for Wi-Fi and 3G module)

---

USB 3.0, USB 2.0

---

RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

---

Open frame

---

Operating temperature 0°C to 50°C

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## Accessories

### Standard

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AC Adapter

Power Cord

Driver CD

## Custom configuration

Up to  
**32 GB**

Memory

Up to  
**512 GB**

Storage

## Application



### Self-Service Payment Kiosk

“THE SYSTEM MEETS  
EMV BANKING SECURITY  
STANDARD.”

Installed a self-service  
payment kiosk Winmate's 15"  
open frame HMI and data  
reader components brings  
automation to gas stations.

# x86 PO Series HMI

7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3



Model Name	15"	15.6" (16:9)	17"
	R15IK7T-POC3	W15IK7T-POA4	R17IK7T-POM1
<b>Display</b>			
<b>Resolution</b>	1024 x 768	1920 x 1080	1280 x 1024
<b>Panel Brightness</b>	300 nits	300 nits	350 nits
<b>Contrast Ratio</b>	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-85~85 (H);-85~85 (V)	-85~85 (H); -80~80 (V)
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
<b>Processor</b>	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
<b>Chipset</b>	Intel® H170	Intel® H170	Intel® H170
<b>Memory</b>	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)
<b>Storage</b>	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)
<b>Ethernet Controller</b>	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
<b>Serial</b>	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
<b>Power Input</b>	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)
<b>USB Port</b>	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>HDMI</b>	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
<b>DP</b>	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
<b>Power</b>			
<b>Power Input</b>	12V DC	12V DC	12V DC
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
<b>Dimension</b>	350 x 292 x 48 mm	392 x 268 x 65 mm	407 x 338 x 69 mm
<b>Mounting</b>	Open Frame	Open Frame	Open Frame
<b>Cooling System</b>	Fanless	Fanless	Fanless
<b>Environment</b>			
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Certifications</b>			
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC



# x86 PO Series HMI

7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3



Model Name	19"	21.5" (16:9)	23.8" (16:9)
	R19IK7T-POM1	W22IK7T-POA3	W24IK7T-POA2
<b>Display</b>			
Resolution	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset	Intel® H170	Intel® H170	Intel® H170
Memory	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)	1 x SO-DIMM DDR4 2400 MHz default 4GB (Max 32GB)
Storage	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (default)
Ethernet Controller	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® Ethernet Controller I211-AT + Intel® Gigabit Ethernet PHY I219-LM
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
Serial	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
Power Input	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)	1 x DC-in Power Jack (+12V)
USB Port	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
DP	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	457 x 382 x 62 mm	525 x 316 x 63 mm	615 x 385 x 66 mm
Mounting	Open Frame	Open Frame	Open Frame
Cooling System	Fanless	Fanless	Fanless
<b>Environment</b>			
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# x86 PO Series HMI

Intel® Celeron® N2930



Model Name	7" (16:9)	10.1" (16:10)	15"	15.6" (16:9)
	W071B3S-POT1	W101B3S-POA1	R151B7T-POC3	W151B7T-POA4
<b>Display</b>				
<b>Resolution</b>	1024 x 600	1920 x 1200	1024 x 768	1920 x 1080
<b>Panel Brightness</b>	320 nits	700 nits	300 nits	300 nits
<b>Contrast Ratio</b>	500 : 1 (Typ.)	800 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)
<b>Viewing Angle</b>	-75~75 (H); -75~70 (V)	-89~89 (H); -89~89 (V)	-88~88(H);-88~88(V)	-85~85(H);-85~85(V)
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB
<b>Storage</b>	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
<b>Ethernet Controller</b>	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE
<b>OS</b>	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>Serial</b>	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>Power Input</b>	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
<b>USB Port</b>	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>HDMI</b>	1 x HDMI	1 x HDMI	-	-
<b>VGA</b>	-	-	1 x VGA (female)	1 x VGA (female)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>				
<b>Dimension</b>	208 x 126 x 46 mm	250 x 187 x 48 mm	360 x 272 x 72 mm	392 x 268 x 74 mm
<b>Mounting</b>	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
<b>Cooling System</b>	Fanless	Fanless	Fanless	Fanless
<b>Environment</b>				
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 PO Series HMI

Intel® Celeron® N2930



Model Name	17"	19"	21.5" (16:9)	23.8" (16:9)
	R17IB7T-POM1	R19IB7T-POM1	W22IB7T-POA3	W24IB7T-POA2
<b>Display</b>				
<b>Resolution</b>	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
<b>Panel Brightness</b>	350 nits	250 nits	250 nits	250 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
<b>Viewing Angle</b>	-85~85(H);-80~80(V)	-85~85(H);-80~80(V)	-89~89(H);-89~89(V)	-89~89(H);-89~89(V)
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB	4GB DDR3L 1600/1333 SODIMM, max. 8GB
<b>Storage</b>	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
<b>Ethernet Controller</b>	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>Serial</b>	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>Power Input</b>	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
<b>USB Port</b>	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>HDMI</b>	-	-	-	-
<b>VGA</b>	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>				
<b>Dimension</b>	407 x 338 x 78 mm	457 x 382 x 71 mm	525 x 316 x 72 mm	615 x 385 x 75 mm
<b>Mounting</b>	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
<b>Cooling System</b>	Fanless	Fanless	Fanless	Fanless
<b>Environment</b>				
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 10.4"~21.5" x86 HMI PP Series

## Custom configuration

Up to  
**16 GB**

Memory

Up to  
**512 GB**

Storage



## Application



### Operator Control & Monitoring

"VIVID GRAPHICS AND USER-FRIENDLY CONTROLS."

Accurate machine control and monitoring with vivid images depicted on a 21.5" screen with crystal clear resolution for more complex graphics inside smart factory.

“ **HIGH COMPUTING PERFORMANCE. PANEL MOUNT.** ”

- 10.4"~21.5" PCAP touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

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Fanless cooling system

---

Panel Brightness adjustment knob

---

Two USB 3.0

---

RS232, RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

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Panel mount, VESA mount

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Front IP65

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Operating temperature 0°C to 50°C

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## Accessories

### Standard

AC Adapter

Power Cord

Driver CD

# x86 PP Series HMI

Intel® Celeron® N2930



Model Name	10.4"	15"	15.6" (16:9)	19"	21.5" (16:9)
	R10IB3S-PPT2	R15IB7T-PPC3	W15IB7T-PPA4	R19IB7T-PPM1	W22IB7T-PPA3
<b>Display</b>					
Resolution	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	300 nits	300 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.9M	16.7M	16.9M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>					
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB
Ethernet Controller	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2	Intel I210-AT GbE LAN x 2
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB	mSATA SSD 64GB, Up to 512GB
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>					
Back Panel I/O Port	1 x DC-in Power Jack 1 x USB 3.0, 1 x USB 2.0 2 x RJ45 10/100/1000 1 x RS232, 1 x RS232/422/485 (Default RS232) 1 x HDMI	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in	1 x DC-in Power Jack 1 x USB 3.0, 3 x USB 2.0 2 x RJ45 10/100/1000 2 x RS232, 1 x RS232/422/485 (Default RS232) 2 x PS/2 1 x VGA (Female) Line-out, Line-in, Mic in
<b>Power</b>					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	35W	38W	58W	60W	60W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>					
Dimension	284 x 252 x 55 mm	420 x 320 x 77 mm	415 x 275 x 79 mm	474 x 384 x 86.5 mm	550 x 360 x 80 mm
<b>Environment</b>					
Temperature	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>					
Safety	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC



# x86 PP Series HMI

Intel® Core™ i5-7200U



Model Name	10.4"	15"	15.6" (16:9)	19"	21.5" (16:9)
	R10IK3S-PPT2	R15IK3S-PPC3	W15IK3S-PPA4	R19IK3S-PPM1	W22IK3S-PPA3
<b>Display</b>					
<b>Resolution</b>	1024 x 768	1024 x 768	1920 x 1080	1280 x 1024	1920 x 1080
<b>Panel Brightness</b>	350 nits	300 nits	300 nits	250 nits	250 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -85~85 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>	16.2M	16.2M	16.9M	16.7M	16.9M
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>					
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>Memory</b>	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB	4GB DDR4 2133 SO-DIMM Max 16GB
<b>Ethernet Controller</b>	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel Gigabit Ethernet PHY I219-LM
<b>Audio</b>	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB	64GB M.2 SSD, Up to 512GB
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>					
<b>Back Side</b>	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI	1 x RS232 (Optional 422/485) 1 x RS232 2 x USB 3.0 2 x RJ45 10/100/1000 1 x HDMI
<b>Power</b>					
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>	80W	80W	80W	80W	80W
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>					
<b>Dimension</b>	284 x 255 x 69 mm	420 x 320 x 67 mm	415 x 275 x 69 mm	474 x 384 x 77 mm	550 x 360 x 70 mm
<b>Environment</b>					
<b>Temperature</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 15"~32" x86 HMI PT Series



“ **STANDALONE.  
FOR YOUR POINT-OF-SALE  
APPLICATION.** ”

- 15"~32" PCAP touchscreen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

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Fanless cooling system

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RS232/422/485

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RJ45 for Ethernet

---

Chassis mount, VESA mount, standalone

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Front IP65 waterproof and dustproof

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Operating temperature 0°C to 50°C

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## Accessories

### Standard

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AC Adapter

Power Cord

Driver CD

## Custom configuration



AR Glass



PoE

## Application



### Retail Point-of-Sales Display

“DURABLE, VERSATILE  
AND EASY TO USE.”

User-friendly interface of chassis HMI now serves as countertop cash register in the retail shop.

# x86 PT Series HMI

Intel® Celeron® N2930  
Intel® Core™ i5-7200U



NEW



Model Name	15"	15.6" (16:9)	32" (16:9)
	R15IB3S-PTC3	W15IB3S-PTA3	W32IK3S-PTA2
<b>Display</b>			
Resolution	1024 x 768	1920 x 1080	1920 x 1080
Panel Brightness	300 nits	300 nits	400 nits
Contrast Ratio	700 : 1 (Typ.)	800 : 1 (Typ.)	4000 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)	-89~89 (H);-89~89 (V)
Display Color	16.2M	16.2M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
<b>System</b>			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz) Intel® Core™ i7-7500U (4M Cache, up to 3.50 GHz), optional
Memory	2GB DDR3L-1600 SODIMM (max 8GB)	2GB DDR3L-1600 SODIMM (max 8GB)	4GB DDR4-2133 SO-DIMM (Max 16GB)
Ethernet Controller	Dual Intel® I210-AT GbE	Dual Intel® I210-AT GbE	Dual Intel® I211AT GbE
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 B Key SATA III (Options up to 512GB)
Security Support	TPM 1.2	TPM 1.2	TPM 1.2
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>			
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
DC-Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 (Optional PoE function)	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 (Optional PoE function)	2 x RJ45 10/100/1000
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	2 x USB 3.0
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker	2 x 5 Watt Speaker
HDMI	-	-	1 x HDMI 1.4a
<b>Power</b>			
Power Consumption	21 W	21 W	53 W
Power Input	12V DC	12V DC	12V DC (Optional 9~36V DC)
Power over Ethernet (PoE)	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input	-
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	352.5 x 276.7 x 45 mm	388 x 233 x 40 mm	799 x 5027 x 63.7 mm
Mounting	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
Cooling System	Fanless	Fanless	Fanless
<b>Environment</b>			
IP Rating	Front IP65	Front IP65	Front IP65
Operating Temp.	0°C to +40°C	0°C to +40°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# 15"~15.6 Arm HMI PT Series



“ A HIGH PERFORMANCE HMI IN A SLIM, SLEEK DESIGN. ”

- 15"~15.6" PCAP touchscreen
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android

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Fanless cooling system

---

RS232/422/485

---

RJ45 for Ethernet

---

Chassis mount, VESA mount, standalone

---

Front IP65 waterproof and dustproof

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Operating temperature 0°C to 50°C

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## Accessories

### Standard

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AC Adapter

Power Cord

Driver CD

## Custom configuration



AR Glass



PoE

## Application



### Interactive POS/Kiosk

“SUITS YOUR SMART RETAIL NEEDS ON ANDROID PLATFORMS.”

PT Series HMI with a user-friendly touch experience serves as the self-service kiosk in the retail shop.

# Arm PT Series HMI

Arm Cortex-A9



Model Name	15"	15.6" (16:9)
	R15FA3S-PTC3	W15FA3S-PTA3
<b>Display</b>		
<b>Resolution</b>	1024 x 768	1920 x 1080
<b>Panel Brightness</b>	300 nits	300 nits
<b>Contrast Ratio</b>	700 : 1 (Typ.)	700 : 1 (Typ.)
<b>Viewing Angle</b>	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)
<b>Display Color</b>	16.2M	16.2M
<b>Touch</b>	Projected Capacitive	Projected Capacitive
<b>System</b>		
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3	1GB LPDDR3
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Linux Kernel 4.1.15, QT 5.5 Browser (Optional) Ubuntu 16.04 (Optional)
<b>Connectors</b>		
<b>COM Port</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>DC-Input</b>	1 x DC Input Phoenix type Terminal Block	1 x DC Input Phoenix type Terminal Block
<b>Ethernet</b>	1 x RJ45 10/100/1000 (Optional PoE function)	1 x RJ45 10/100/1000 (Optional PoE function)
<b>Speaker</b>	2 x 1 Watt Speaker	2 x 1 Watt Speaker
<b>USB Port</b>	1 x USB 2.0 1 x USB OTG 1 x Mini USB	1 x USB 2.0 1 x USB OTG, 1 x Mini USB
<b>SD Slot</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>CANBus</b>	1 x CANBus (DB9)	1 x CANBus (DB9)
<b>Power</b>		
<b>Power Consumption</b>	13 W	13 W
<b>Power Input</b>	12V DC	12V DC
<b>Power over Ethernet (PoE)</b>	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>		
<b>Dimension</b>	352.5 x 276.7 x 45 mm	388 x 233 x 40 mm
<b>Mounting</b>	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
<b>Cooling System</b>	Fanless	Fanless
<b>Environment</b>		
<b>IP Rating</b>	Front IP65	Front IP65
<b>Operating Temp.</b>	0°C to +40°C	0°C to +40°C
<b>Humidity</b>	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>Certifications</b>		
<b>Safety</b>	CE, FCC	CE, FCC



# Arm PT Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	15"	15.6" (16:9)
	R15RK3S-PTC3	W15RK3S-PTA3
<b>Display</b>		
Resolution	1024 x 768	1920 x 1080
Panel Brightness	300 nits	300 nits
Contrast Ratio	700 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)
Display Color	16.2M	262K
Touch	Projected Capacitive	Projected Capacitive
<b>System</b>		
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (default)	Android 7.1 (default)
<b>Connectors</b>		
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
DC-Input	1 x DC Input Phoenix type Terminal Block	1 x DC Input Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker
USB Port	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Power</b>		
Power Consumption	13 W	13 W
Power Input	12V DC	12V DC
Power over Ethernet (PoE)	Support PoE (Optional), requires IEEE 802.3at 25W power input	Support PoE (Optional), requires IEEE 802.3at 25W power input
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>		
Dimension	352.5 x 276.7 x 45.45 mm	388 x 233 x 40 mm
Mounting	VESA Mount (100 x 100, 75 x 75 mm)	VESA Mount (100 x 100, 75 x 75 mm)
Cooling System	Fanless	Fanless
<b>Environment</b>		
IP Rating	Front IP65	Front IP65
Operating Temp.	0°C to +40°C	0°C to +40°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>Certifications</b>		
Safety	CE, FCC	CE, FCC

# 7"~15" x86 HMI S Series

## Custom configuration



Memory



Status Light Bar



2MP Webcam



HR RFID Reader



## Application



### Machine Controller

"EASY TO MAINTAIN & COST EFFECTIVE."

Installed in a packaging zone of a food processing manufacturer S-Series operator panel brings automation to packaging line.

“ SMART SOLUTION FOR AUTIMATED PACKAGING. ”

- 7"~15" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

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Fanless cooling system

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64GB M.2 SSD

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Power over Ethernet (PoE)

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USB 3.0, USB 2.0

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RS232/422/485, RJ45 for Ethernet

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1W Speaker

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Panel mount, VESA mount, standalone

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Front IP65

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Operating temperature 0°C to 50°C

## Accessories

### Standard

VESA Plate

VESA Screws

AC Adapter

Power Cord

Driver CD

VESA Desk Stand

VESA Wall Mount Bracket

# x86 S Series HMI

Intel® Celeron® N2930



NEW



Model Name	7" (16:9)	7" (16:9)	10.1" (16:10)
	W07IB3S-PCO1-PoE	W07IB3S-PCO1AC-PoE	W10IB3S-PCH2LB
<b>Display</b>			
Resolution	1024 x 600	1024 x 600	1280 x 800
Panel Brightness	1000 nits	1000 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
Active Area	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-85~85 (H); -85~85 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projective Capacitive
<b>System</b>			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM DDR3L 1600 MHz (Default 2GB, Max 8GB)	1 x SODIMM DDR3L 1600 MHz (Default 2GB, Max 8GB)	2GB DDR3L 1600 SODIMM (Optional 8GB)
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
Power	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
Audio	1 x 1 Watt speaker	1 x 1 Watt speaker	1 x 1 Watt Speaker
<b>User Controls</b>			
LED Light Bar	-	1 x LED Light Bar	Built-in All-Around RGB LED Light Bar
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	30% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Consumption	19W	19W	19W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	189.4 x 145.4 x 37.7 mm	189.4 x 145.4 x 37.7 mm	263.28 x 171 x 35.7 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
<b>Data Capture</b>			
RFID Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP Front Camera (Optional)	2MP Front Camera (Optional)	NA
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# x86 S Series HMI

Intel® Celeron® N2930



Model Name	10.1" (16:10)	10.1" (16:10)	15"
	W10IB3S-PCH2AC-PoE	W10IB3S-PCH2-PoE	R15IB3S-PCC3-PoE
<b>Display</b>			
Resolution	1280 x 800	1280 x 800	1024 x 768
Panel Brightness	350 nits	350 nits	250 nits
Contrast Ratio	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	216.96 x 135.6	216.96 x 135.6	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.2M
Touch	Projective Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)	1 x SODIMM DDR3L 1600 MHz (default 2GB, max. 8GB)
Ethernet Controller	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN	Dual Intel® I210-AT GbE LAN
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Storage	64GB M.2 SSD	64GB M.2 SSD	64GB M.2 SSD
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
Power	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)	1 x 3pin Terminal Block (Phoenix Type)
Ethernet	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	2 x 2W Speaker
<b>User Controls</b>			
LED Light Bar	1 x LED Light Bar	-	-
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	-10°C to +50°C
Storage Temp.	-10°C to +60°C	-10°C to +60°C	-10°C to +60°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Consumption	19W	19W	23W
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.4 x 277.8 x 44.5 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)
Cooling System	Fanless design	Fanless design	Fanless design
<b>Data Capture</b>			
RFID Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP Front Camera (Optional)	2MP Front Camera (Optional)	2MP Front Camera (Optional)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# 5"~15" Arm HMI S Series



“ KNOW-HOW IN POE AND TOUCH TECHNOLOGY. ”

- 5"~15" PCAP touchscreen
- Arm Cortex-A9
- Android 6.0, Ubuntu 16.04, Yocto project 2.0 (QT5.5 Wayland)

---

Fanless cooling system

---

16GB eMMC, Micro SD Card Slot

---

Power over Ethernet (PoE)

---

USB 2.0, USB OTG

---

RS232/422/485, RJ45 LAN Support PoE, CANBus

---

1W Speaker

---

Panel mount, VESA mount

---

Front IP65

---

Operating temperature 0°C to 50°C

---

## Accessories

### Standard

VESA Plate	VESA Screws	AC Adapter	Power Cord	Driver CD
VESA Desk Stand	VESA Wall Mount Bracket			

## Custom configuration



Memory



Status Light Bar



2MP Webcam



HR RFID Reader

## Application



### Meeting Room Booking System

“OPTIMIZE MEETING ROOM UTILIZATION.”

Installed at the entrance of the meeting room, 10.4" S-Series HMI with HF RFID reader helps to control the access to the meeting room, book schedule and check status from afar.



# Arm S Series HMI

Arm Cortex-A9



Model Name	7" (16:9)	7" (16:9)	10.1" (16:10)
	W07FA3S-PCO1AC-POE	W07FA3S-PCO1-POE	W10FA3S-PCH2LB
<b>Display</b>			
<b>Resolution</b>	1024 x 600	1024 x 600	1280 x 800
<b>Panel Brightness</b>	1000 nits	1000 nits	350 nits
<b>Contrast Ratio</b>	700 : 1 (Typ.)	700 : 1 (Typ.)	800:1 (Typ.)
<b>Active Area</b>	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
<b>Viewing Angle</b>	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	85~85(H);-85~85(V)
<b>Display Color</b>	16.7M	16.7M	16.7M
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB)
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5
<b>Connectors</b>			
<b>Power</b>	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack
<b>Ethernet</b>	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
<b>Serial Interface</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>USB</b>	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG
<b>SD Card</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Audio</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
<b>CANBus</b>	1 x CANBus	1 x CANBus	1 x CANBus
<b>LED Light Bar</b>	1 x Built-in RGB LED light bar	-	All-around RGB LED status light bar
<b>Power</b>			
<b>Power Input</b>	9~24V DC	9~24V DC	12V DC
<b>Power Consumption</b>	10W	10 W	12 W
<b>Power over Ethernet</b>	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
<b>Dimension</b>	189.4 x 145.4 x 36.1 mm	189.4 x 145.4 x 36.1 mm	263.28 x 171 x 35.7 mm
<b>Mounting</b>	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front -IP65, Full-IP22
<b>Options</b>			
<b>RFID/NFC Reader</b>	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
<b>Camera</b>	2MP front camera (Optional)	2MP front camera (Optional)	NA
<b>Certifications</b>			
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC

# Arm S Series HMI

Arm Cortex-A9



Model Name	10.1" (16:10)	10.1" (16:10)	15"
	W10FA3S-PCH2AC-PoE	W10FA3S-PCH2-POE	R15FA3S-PCC3-PoE
<b>Display</b>			
<b>Resolution</b>	1280 x 800	1280 x 800	1024 x 768
<b>Panel Brightness</b>	350 nits	350 nits	250 nits
<b>Contrast Ratio</b>	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
<b>Active Area</b>	216.96 x 125.6	216.96 x 135.6	304.1 x 228.1
<b>Viewing Angle</b>	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -70~70 (V)
<b>Display Color</b>	16.7M	16.7M	16.7M
<b>Touch</b>	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5	Android 6.0 (Default) Ubuntu 16.04 Linux Kernel 4.1.15, QT 5.5
<b>Connectors</b>			
<b>Power</b>	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
<b>Ethernet</b>	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
<b>Serial Interface</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>USB</b>	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG	1 x USB 2.0, 1 x USB OTG
<b>SD Card</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Audio</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
<b>CANBus</b>	1 x CANBus	1 x CANBus	1 x CANBus
<b>LED Light Bar</b>	1 x Built-in RGB LED light bar	-	-
<b>Power</b>			
<b>Power Input</b>	12V DC	12V DC	12V DC
<b>Power Consumption</b>	12W	12W	19W
<b>Power over Ethernet</b>	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
<b>Dimension</b>	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.40 x 277.86 x 44.50 mm
<b>Mounting</b>	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
<b>Options</b>			
<b>RFID/NFC Reader</b>	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
<b>Camera</b>	2MP front camera (Optional)	2MP front camera (Optional)	2MP front camera (Optional)
<b>Certifications</b>			
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC

# Arm S Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	7" (16:9)	7" (16:9)	10.1" (16:10)
	W07RK3S-PCO1AC-PoE	W07RK3S-PCO1-POE	W10RK3S-PCH2LB
<b>Display</b>			
Resolution	1024 x 600	1024 x 600	1280 x 800
Panel Brightness	1000 nits	1000 nits	350 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)	800 : 1 (Typ.)
Active Area	153.6 x 90.0	153.6 x 90.0	216.96 x 135.6
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-85~85(H);-85~85(V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default) / Debian 9.0	Android 7.1 (Default) / Debian 9.0	Android 7.1 (Default) / Debian 9.0
<b>Connectors</b>			
Power	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
LED Light Bar	1 x Built-in RGB LED light bar	-	Built-in All-Around RGB LED Status Light Bar
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Consumption	12W	12W	12W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	189.4 x 145.4 x 36.1 mm	189.4 x 145.4 x 36.1 mm	263.28 x 171 x 35.7 mm
Mounting	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
<b>Options</b>			
RFID/NFC Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	-
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# Arm S Series HMI

Arm Cortex-A72 + Arm Cortex-A53



Model Name	10.1" (16:10)	10.1" (16:10)	15"
	W10RK3S-PCH2AC-PoE	W10RK3S-PCH2-POE	R15RK3S-PCC3-PoE
<b>Display</b>			
Resolution	1280 x 800	1280 x 800	1024 x 768
Panel Brightness	350 nits	350 nits	250 nits
Contrast Ratio	800 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)
Active Area	220.416 x 129.15	220.416 x 129.15	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
<b>System</b>			
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)	2GB LPDDR3L 1600 (Optional 4GB LPDDR3L 1600)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default) Debian 9.0	Android 7.1 (Default) Debian 9.0	Android 7.1 (Default) Debian 9.0
<b>Connectors</b>			
Power	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block	1 x Phoenix type Terminal Block
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
Serial Interface	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
USB	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG	2 x USB 3.0, 1 x USB OTG
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
SD Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Audio	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
LED Light Bar	1 x Built-in RGB LED light bar	-	-
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Consumption	12W	12W	19W
Power over Ethernet	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt	IEEE 802.3at for up to 25 Watt
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
Dimension	263.28 x 171 x 35.7 mm	263.28 x 171 x 35.7 mm	363.40 x 277.86 x 44.50 mm
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)
Cooling System	Fanless design	Fanless design	Fanless design
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
IP Rating	Front-IP65, Full-IP22	Front-IP65, Full-IP22	Front-IP65, Full-IP22
<b>Options</b>			
RFID/NFC Reader	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	2MP front camera (Optional)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# 15"~24" x86 Panel PC

## Kaby Lake Series

NEW



### Custom configuration



Memory



Storage



High Panel  
Brightness



AR Glass



Housing



Wide Power

### Application



#### Forklift Operator Terminal

"FLEXIBLE FOR CUSTOMIZATION!"

Winmate's 6 and 10.1" open frame panel PC with anti-vibration design and lockable connectors for forklift solution.

## “ VARIOUS MOUNTING SOLUTIONS. ”

- 15"~24" screen with resistive touchscreen
- 7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3
- Windows 10

---

Fanless cooling system

---

Intel® H170 chipset

---

2.5" HDD500GB

---

Two M.2 (1 for Wi-Fi, 1 for SSD), PCIe x16

---

Four USB 3.0

---

Two RS232/422/485, two RJ45 for Ethernet, HDMI 1.4, DP 1.2

---

Lockable power connector

---

Open frame, panel mount, chassis, PCAP chassis, front IP65

---

Operating temperature 0°C to 50°C

### Accessories

#### Standard

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AC Adapter

Power Cord

Driver CD



# x86 Kaby Lake Panel PC

7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3



		15"	17"	18.5" (16:9)	19"
<b>Model Name</b>	<b>Open Frame</b>	<b>R15IK7T-OFC3</b>	<b>R17IK7T-OFM1</b>	<b>W18IK7T-OFA2</b>	<b>R19IK7T-OFA1</b>
	<b>Panel Mount</b>	<b>R15IK7T-PMC3</b>	<b>R17IK7T-PMM1</b>	<b>W18IK7T-PMA2</b>	<b>R19IK7T-PMA1</b>
	<b>IP65</b>	<b>R15IK7T-IPC3</b>	<b>R17IK7T-IPM1</b>	<b>W18IK7T-IPA2</b>	<b>R19IK7T-IPA1</b>
	<b>Chassis</b>	<b>R15IK7T-CHC3</b>	<b>R17IK7T-CHM1</b>	<b>W18IK7T-CHA2</b>	<b>R19IK7T-CHA1</b>
<b>Display</b>					
<b>Resolution</b>		1024 x 768	1280 x 1024	1366 x 768	1280 x 1024
<b>Panel Brightness</b>		300 nits	350 nits	250 nits	400 nits
<b>Contrast Ratio</b>		2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>		16.2M	16.2M	16.7M	16.7M
<b>Touch</b>		5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)	5-Wire Resistive touchscreen (Default) AR Glass (Optional)
<b>System</b>					
<b>Processor</b>		Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
<b>Chipset</b>		Intel® H170	Intel® H170	Intel® H170	Intel® H170
<b>Memory</b>		1 x SODIMM, Max. 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB
<b>Ethernet Controller</b>		Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® 11-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>		1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)
<b>Expansion Slots</b>		2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16
<b>Security Support</b>		TPM 2.0	TPM 2.0	TPM 2.0	TPM 2.0
<b>OS</b>		Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>					
<b>USB</b>		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
<b>COM Port</b>		1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)	1 x RS232 2 x RS232/422/485 (Default RS232)
<b>Ethernet</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>HDMI Port</b>		1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
<b>Display Port</b>		1 x DP 1.2	1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
<b>Audio</b>		Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
<b>DVD Optional</b>		Optional	Optional	Optional	Optional
<b>User Controls</b>					
<b>Control Buttons</b>		Clear CMOS	Clear CMOS	Clear CMOS	Clear CMOS
<b>LED Indicators</b>		Power, HDD	Power, HDD	Power, HDD	Power, HDD
<b>Power</b>					
<b>Power Input</b>		12V DC	12V DC	12V DC	12V DC
<b>Power Consumption</b>		58W	93W	88W	85W
<b>Power Adapter</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>					
<b>Operating Temp.</b>		0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>					
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 Kaby Lake Panel PC

7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3



		21.5" (16:9)	23.8" (16:9)	32"
Model Name	Open Frame	W22IK7T-OFA3	W24IK7T-OFA2	
	Panel Mount	W22IK7T-PMA3	W24IK7T-PMA2	
	IP65	W22IK7T-IPA3	W24IK7T-IPA2	
	Chassis	W22IK7T-CHA3	W24IK7T-CHA2	W32IK7T-PCA3
<b>Display</b>				
Resolution		1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness		250 nits	250 nits	400 nits
Contrast Ratio		3000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
Display Color		16.7M	16.7M	16.7M
Touch		5-Wire Resistive touchscreen (Default), AR Glass (Optional)	5-Wire Resistive touchscreen (Default), AR Glass (Optional)	Projective capacitive
<b>System</b>				
Processor		Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
Chipset		Intel® H170	Intel® H170	Intel® H170
Memory		1 x SODIMM, Max 32GB DDR4 2400 MHz, default 4GB	1 x SODIMM, max. 32GB DDR4 2133 MHz, default 4GB	1 x SODIMM, max. 32GB DDR4 2133 MHz, default 4GB
Ethernet Controller		Intel® 211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® 211-AT + Intel® Gigabit Ethernet PHY I219-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I219-LM
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage		1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)	1 x M.2 SSD, Max 512GB 1 x 2.5" 500GB HDD (Default)
Expansion Slots		2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16	2 x M.2 (1 for WiFi, 1 for SSD), 1 x PCIe x16
Security Support		TPM 2.0	TPM 2.0	TPM 2.0
OS		Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>				
USB		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
COM Port		1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
Ethernet		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
HDMI Port		1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Display Port		1 x DP 1.2	1 x DP 1.2	1 x DP 1.2
Audio		Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
DVD Optional		Yes (Optional)	Yes (Optional)	Yes (Optional)
<b>User Controls</b>				
Control Buttons		Clear CMOS	Clear CMOS	Clear CMOS
LED Indicators		Power, HDD	Power, HDD	Power, HDD
<b>Power</b>				
Power Input		12V DC	12V DC	12V DC
Power Consumption		60W	93W	100W
Power Adapter		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>				
Operating Temp.		0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>				
Safety		CE, FCC	CE, FCC	CE, FCC

# 15"~21.5" x86 Panel PC Haswell Series



“**EFFICIENT SOLUTION.**”

- 15"~21.5" screen
- Intel® Core™ i5-4200M
- Windows 10

---

Thermal solution with fan

---

Intel® QM87 chipset

---

Two mini PCIe (1 for Wi-Fi, 1 for SSD), PCIe x16

---

Four USB 3.0

---

Two RS232, RS232/422/485, two RJ45 for Ethernet, VGA, two PS/2

---

Lockable power connector

---

Open frame, panel mount, chassis, front IP65

---

Operating temperature 0°C to 50°C

## Accessories

### Standard

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AC Adapter

Power Cord

Driver CD

## Custom configuration



Memory



Storage



High Panel  
Brightness



AR Glass



Housing

## Application



### Military Simulation

“FAST AND EFFICIENT  
CUSTOMIZATION  
SERVICE.”

With several custom modifications Winmate's 8.4" front IP65 panel PC now helps military personnel to get familiar with command tasks and simulate real field environment.

# x86 Haswell Panel PC

Intel® Core™ i5-4200M



		15"	15.6" (16:9)	17"
Model Name	Open Frame	R15IH7T-OFC3	W15IH7T-OFA2	R17IH7T-OFM1
	Panel Mount	R15IH7T-PMC3	W15IH7T-PMA2	R17IH7T-PMM1
	IP65	R15IH7T-IPC3	W15IH7T-IPA2	R17IH7T-IPM1
	Chassis	R15IH7T-CHC3	W15IH7T-CHA2	R17IH7T-CHM1
<b>Display</b>				
<b>Resolution</b>		1024 x 768	1366 x 768	1280 x 1024
<b>Panel Brightness</b>		300 nits	400 nits	350 nits
<b>Contrast Ratio</b>		2000 : 1 (Typ.)	500 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>		16.2M	16.7M	16.2M
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>				
<b>Processor</b>		Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)
<b>Chipset</b>		Intel® QM87	Intel® QM87	Intel® QM87
<b>Memory</b>		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
<b>Ethernet Controller</b>		Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM
<b>BIOS</b>		AMI BIOS	AMI BIOS	AMI BIOS
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>		2.5" SSD , 2.5" HDD, mSATA SSD	2.5" SSD, 2.5" HDD, mSATA SSD	2.5" SSD, 2.5" HDD, mSATA SSD
<b>OS</b>		Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux
<b>Connectors</b>				
<b>Power</b>		Lockable DC In Power Jack	Lockable DC In Power Jack	Lockable DC In Power Jack
<b>Ethernet</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Serial Interface</b>		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
<b>VGA</b>		1 x VGA	1 x VGA	1 x VGA
<b>Audio</b>		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
<b>Keyboard/Mouse</b>		2 x PS/2	2 x PS/2	2 x PS/2
<b>DVD</b>		Yes (Optional)	Yes (Optional)	Yes (Optional)
<b>Power</b>				
<b>Power Input</b>		12V DC	12V DC	12V DC
<b>Power Adapter</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>				
<b>Operating Temp.</b>		0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>				
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC

# x86 Haswell Panel PC

Intel® Core™ i5-4200M



		19"	21.5" (16:9)
Model Name	Open Frame	R19IH7T-OFA1	W22IH7T-OFA3
	Panel Mount	R19IH7T-PMA1	W22IH7T-PMA3
	IP65	R19IH7T-IPA1	W22IH7T-IPA3
	Chassis	R19IH7T-CHA1	W22IH7T-CHA3
<b>Display</b>			
Resolution	1280 x 1024	1920 x 1080	
Panel Brightness	400 nits	250 nits	
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	
Viewing Angle	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	
Display Color	16.7M	16.7M	
Touch	Resistive touchscreen	Resistive touchscreen	
<b>System</b>			
Processor	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	Intel® Core™ i5-4200M (3M Cache, up to 3.30 GHz)	
Chipset	Intel® QM87	Intel® QM87	
Memory	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	
Ethernet Controller	Intel® 211-AT + Intel® Gigabit Ethernet PHY I218-LM	Intel® I211-AT + Intel® Gigabit Ethernet PHY I218-LM	
BIOS	AMI BIOS	AMI BIOS	
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	
Storage	2.5" SSD/2.5" HDD/mSATA SSD	2.5" SSD/2.5" HDD/mSATA SSD	
OS	Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux	
<b>Connectors</b>			
Power	Lockable DC In Power Jack	Lockable DC In Power Jack	
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	
USB	4 x USB 3.0	4 x USB 3.0	
VGA	1 x VGA	1 x VGA	
Audio	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	
Keyboard/Mouse	2 x PS/2	2 x PS/2	
DVD	Yes (Optional)	Yes (Optional)	
<b>Power</b>			
Power Input	12V DC	12V DC	
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	
<b>Environment</b>			
Operating Temp.	0°C to +50°C	0°C to +50°C	
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	



# 8.4"~21.5" x86 Fanless Panel PC Bay Trail Series

## Custom configuration



Memory



Storage



PCAP  
Touchscreen



AR Glass



Housing



## Application



### Logistics Hub Information Terminal

"WINMATE - FAST  
AND EFFICIENT  
CUSTOMIZATION  
SERVICE."

Winmate's 17" chassis panel  
PC and flexibility allow user to  
customize their own.

**“ INDUSTRIAL DESIGN.  
POWER EFFICIENT CPU. ”**

- 8.4"~21.5" screen
- Intel® Celeron® N2930
- Windows 10/8/7

---

Fanless cooling system

---

USB 3.0, USB 2.0

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RS232, RS232/422/485, two RJ45 for Ethernet, HDMI 1.4

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Open frame, panel mount, chassis, front IP65

---

Operating temperature 0°C to 50°C

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## Accessories

### Standard

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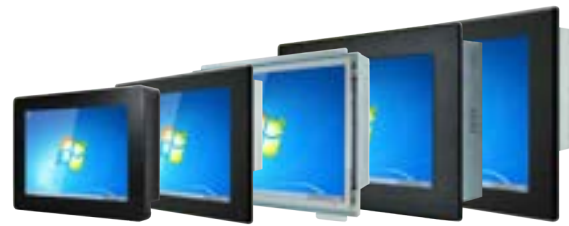
AC Adapter

Power Cord

Driver CD

# x86 Fanless Panel PC

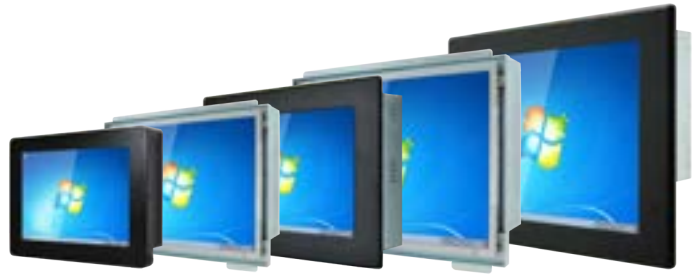
Intel® Celeron® N2930



		6.5"	7" (16:9)	8.4"	10.1" (16:9)	10.4"
<b>Model Name</b>	Open Frame	R06IB3S-OFA1	W07IB3S-OFT1	R08IB3S-OFU1	W10IB3S-OFH1	R10IB3S-OFT2
	Panel Mount	R06IB3S-CHA1	W07IB3S-PMT1	R08IB3S-PMU1	W10IB3S-PMH1	R10IB3S-PMT2
	IP65	R06IB3S-IPA1	W07IB3S-IPT1	R08IB3S-IPU1	W10IB3S-IPH1	R10IB3S-IPT2
	Chassis	R06IB3S-PMA1	W07IB3S-CHT1	R08IB3S-CHU1	W10IB3S-CHH1	R10IB3S-CHT2
<b>Display</b>						
<b>Resolution</b>		640 x 480	1024 x 600	800 x 600	1024 x 600	1024 x 768
<b>Panel Brightness</b>		700 nits	320 nits	600 nits	450 nits	350 nits
<b>Contrast Ratio</b>		600 : 1 (Typ.)	500: 1 (Typ.)	600: 1 (Typ.)	800: 1 (Typ.)	1000:1 (Typ.)
<b>Viewing Angle</b>		-80~80 (H); -70~70 (V)	-75~75 (H); -75~70 (V)	-75~75 (H); -60~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>		16.2M	16.7M	16.2M	16.7M	16.2M
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>						
<b>Processor</b>		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>		SO-DIMM, max. 8GB DDR3L 1600	SO-DIMM, max. 8GB DDR3L 1600	SO-DIMM, max. 8GB DDR3L	SO-DIMM, max. 8GB DDR3L	SO-DIMM, max. 8GB DDR3L
<b>Ethernet Controller</b>		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
<b>BIOS</b>		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
<b>OS</b>		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
<b>Connectors</b>						
<b>Ethernet</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Serial Interface</b>		1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>		1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
<b>HDMI</b>		1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
<b>Power</b>						
<b>Power Input</b>		12V DC	12V DC	12V DC	12V DC	12V DC
<b>Power Adapter</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>						
<b>Operating Temp.</b>		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>						
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 Fanless Panel PC

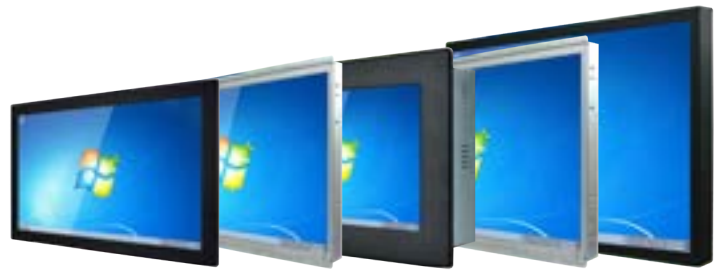
Intel® Celeron® N2930



		10.4"	12.1"	15"	15.6" (16:9)	17"
<b>Model Name</b>	Open Frame	R10IB3S-OFP1	R12IB3S-OFM2	R15IB7T-OFM3	W15IB7T-OFA2	R17IB7T-OFM1
	Panel Mount	R10IB3S-PMP1	R12IB3S-PMM2	R15IB7T-PMC3	W15IB7T-PMA2	R17IB7T-PMM1
	IP65	R10IB3S-IPP1	R12IB3S-IPM2	R15IB7T-IPC3	W15IB7T-IPA2	R17IB7T-IPM1
	Chassis	R10IB3S-CHP1	R12IB3S-IPM2	R15IB7T-IPC3	W15IB7T-IPA2	R17IB7T-IPM1
<b>Display</b>						
<b>Resolution</b>		800 x 600	1024 x 768	1024 x 768	1366 x 768	1280 x 1024
<b>Panel Brightness</b>		600 nits	500 nits	300 nits	400 nits	350 nits
<b>Contrast Ratio</b>		400 : 1 (Typ.)	700 : 1 (Typ.)	2000 : 1 (Typ.)	500 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>		-70~70 (H); -70~60 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>		16.2M	16.2M	16.2M	16.7M	16.2M
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>						
<b>Processor</b>		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>		SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM, max. 8GB DDR3L	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB
<b>Ethernet Controller</b>		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
<b>BIOS</b>		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
<b>OS</b>		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
<b>Connectors</b>						
<b>Ethernet</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Serial Interface</b>		2 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>		1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
<b>HDMI</b>		1 x HDMI	1 x HDMI	-	-	-
<b>VGA</b>		-	-	1 x VGA	1 x VGA	1 x VGA
<b>Audio</b>		-	-	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
<b>Keyboard/Mouse</b>		-	-	2 x PS/2	2 x PS/2	2 x PS/2
<b>Power</b>						
<b>Power Input</b>		12V DC	12V DC	12V DC	12V DC	12V DC
<b>Power Adapter</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>						
<b>Operating Temp.</b>		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>						
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 Fanless Panel PC

Intel® Celeron® N2930



		18.5" (16:9)	19"	19"	21.5" (16:9)	23.8" (16:9)
<b>Model Name</b>	Open Frame	W181B7T-OFA2	R191B7T-OFM1	R191B7T-OFA1	W221B7T-OFA3	W241B7T-OFA2
	Panel Mount	W181B7T-PMA2	R191B7T-PM11	R191B7T-PMA1	W221B7T-PMA3	W241B7T-PMA2
	IP65	W181B7T-IPA2	R191B7T-IPM1	R191B7T-IPA1	W221B7T-IPA3	W241B7T-IPA2
	Chassis	W181B7T-CHA2	R191B7T-CHM1	R191B7T-CHA1	W221B7T-CHA3	W241B7T-CHA2
<b>Display</b>						
<b>Resolution</b>		1366 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
<b>Panel Brightness</b>		250 nits	250 nits	400 nits	250 nits	250 nits
<b>Contrast Ratio</b>		1000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
<b>Viewing Angle</b>		-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>		16.7M	16.7M	16.7M	16.7M	16.7M
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>						
<b>Processor</b>		Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>		SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB	SO-DIMM DDR3L 1600, max. 8GB
<b>Ethernet Controller</b>		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
<b>BIOS</b>		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>		2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD	2.5" HDD, mSATA SSD
<b>OS</b>		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System / Linux
<b>Connectors</b>						
<b>Ethernet</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Serial Interface</b>		1 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>		1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
<b>VGA</b>		1 x VGA	1 x VGA	1 x VGA	1 x VGA	1 x VGA
<b>Audio</b>		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
<b>Keyboard/Mouse</b>		2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2
<b>Power</b>						
<b>Power Input</b>		12V DC	12V DC	12V DC	12V DC	12V DC
<b>Power Adapter</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Environment</b>						
<b>Operating Temp.</b>		0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>		10% to 95% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>						
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

## 10.4"~23.8" x86 Panel PC

# Ivy Bridge Series

### Custom configuration



Memory



Storage



Housing



AR Glass



PCAP  
Touchscreen



### Application



#### Payment Machine

"NEW SOLUTION  
THROUGH  
COLLABORATION."

Self-service solution evolves through collaboration with Winmate, 12" open frame panel PC with touchscreen now serves as a payment terminal.

“**DURABLE AND RELIABLE.**”

- 10.4"~23.8" screen
- 3<sup>rd</sup> Gen. Intel® Core™ i5
- Windows 10

---

Thermal solution with fan

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Intel® HM76 chipset

---

Two mini PCIe (1 for Wi-Fi, 1 for SSD), PCIe x16, PCIe x4

---

Four USB 3.0

---

Two RS232, RS232/422/485, two RJ45 for Ethernet, VGA, two PS/2

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Lockable power connector

---

Open frame, panel mount, chassis, front IP65

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operating temperature 0°C to 50°C

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### Accessories

#### Standard

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AC Adapter

Power Cord

Driver CD



# x86 Ivy Bridge Panel PC

3<sup>rd</sup> Gen. Intel® Core™ i5



		10.4"	12.1"	12.1"
Model Name	Open Frame	R10IV7T-OFT2	R12IV7T-OFL1	R12IV7T-OFM2
	Panel Mount	R10IV7T-PMT2	R12IV7T-PML1	R12IV7T-PM2
	IP65	R10IV7T-IPT2	R12IV7T-IPL1	R12IV7T-IPM2
	Chassis	R10IV7T-CHT2	R12IV7T-CHL1	R12IV7T-CHM2
<b>Display</b>				
Resolution	1024 x 768	800 x 600	1024 x 768	
Panel Brightness	350 nits	450 nits	500 nits	
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	700 : 1 (Typ.)	
Viewing Angle	-88~88 (H); -88~88 (V)	-80~80 (H); -75~65 (V)	-80~80 (H); -70~70 (V)	
Display Color	16.2M	16.2M	16.2M	
Touch	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	
<b>System</b>				
Processor	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	
Chipset	Intel® HM76	Intel® HM76	Intel® HM76	
Memory	1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max. 8GB	
Ethernet Controller	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	
I/O Chipset	Winbond W83628UHG	Winbond W83628UHG	Winbond W83628UHG	
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	
Storage	2.5" HDD / 2.5" SSD/mSATA SSD	2.5" HDD / 2.5" SSD/mSATA SSD	2.5" HDD / 2.5" SSD/mSATA SSD	
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	
<b>Connectors</b>				
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	
USB	4 x USB3.0	4 x USB 3.0	4 x USB3.0	
VGA	1 x VGA	1 x VGA	1 x VGA	
Audio	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	
Keyboard/Mouse	2 x PS/2	2 x PS/2	2 x PS/2	
Other	1 x VR knob	1 x VR knob	1 x VR knob	
<b>Power</b>				
Power Input	12V DC	12V DC	12V DC	
Power Adaptor	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	
<b>Environment</b>				
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	
<b>Certifications</b>				
Safety	CE, FCC	CE, FCC	CE, FCC	

# x86 Ivy Bridge Panel PC

3<sup>rd</sup> Gen. Intel® Core™ i5



		15"	17"	19"
<b>Model Name</b>	<b>Open Frame</b>	<b>R15IV7T-OFC3</b>	<b>R17IV7T-OFM1</b>	<b>R19IV7T-OFM1</b>
	<b>Panel Mount</b>	<b>R15IV7T-PMC3</b>	<b>R17IV7T-PMM1</b>	<b>R19IV7T-PMM1</b>
	<b>IP65</b>	<b>R15IV7T-IPC3</b>	<b>R17IV7T-IPM1</b>	<b>R19IV7T-IPM1</b>
	<b>Chassis</b>	<b>R15IV7T-CHC3</b>	<b>R17IV7T-CHM1</b>	<b>R19IV7T-CHM1</b>
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1280 x 1024	1280 x 1024	
<b>Panel Brightness</b>	300 nits	350 nits	250 nits	
<b>Contrast Ratio</b>	2000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	
<b>Display Color</b>	16.2M	16.2M	16.7M	
<b>Touch</b>	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	
<b>Chipset</b>	Intel® HM76	Intel® HM76	Intel® HM76	
<b>Memory</b>	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	
<b>Ethernet Controller</b>	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS	
<b>Audio</b>	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	
<b>Storage</b>	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	
<b>Connectors</b>				
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	
<b>Serial Interface</b>	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	
<b>USB</b>	4 x USB3.0	4 x USB3.0	4 x USB3.0	
<b>VGA</b>	1 x VGA	1 x VGA	1 x VGA	
<b>Audio</b>	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	
<b>Keyboard/Mouse</b>	2 x PS/2	2 x PS/2	2 x PS/2	
<b>VR Knob</b>	1 x VR knob	1 x VR knob	1 x VR knob	
<b>DVD</b>	Yes (Optional)	Yes (Optional)	Yes (Optional)	
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	
<b>Environment</b>				
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	

# x86 Ivy Bridge Panel PC

3<sup>rd</sup> Gen. Intel® Core™ i5



		19"	21.5" (16:9)	24" (16:9)
<b>Model Name</b>	<b>Open Frame</b>	<b>R19IV7T-OFA1</b>	<b>W22IV7T-OFA3</b>	<b>W24IV7T-OFA2</b>
	<b>Panel Mount</b>	<b>R19IV7T-PMA1</b>	<b>W22IV7T-PMA3</b>	
	<b>IP65</b>	<b>R19IV7T-IPA1</b>	<b>W22IV7T-IPA3</b>	<b>W24IV7T-IPA2</b>
	<b>Chassis</b>	<b>R19IV7T-CHA1</b>	<b>W22IV7T-CHA3</b>	
<b>Display</b>				
<b>Resolution</b>	1280 x 1024	1920 x 1080	1920 x 1080	
<b>Panel Brightness</b>	400 nits	250 nits	250 nits	
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)	
<b>Viewing Angle</b>	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)	-89~89 (H); -89~89 (V)	
<b>Display Color</b>	16.7M	16.7M	16.7M	
<b>Touch</b>	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	
<b>Chipset</b>	Intel® HM76	Intel® HM76	Intel® HM76	
<b>Memory</b>	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	
<b>Ethernet Controller</b>	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	Dual Broadcom BCM57780 PCIe GbE	
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS	
<b>Audio</b>	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	
<b>Storage</b>	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	2.5" HDD/2.5" SSD/mSATA SSD	
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 / Linux	
<b>Connectors</b>				
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	
<b>Serial Interface</b>	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	
<b>USB</b>	4 x USB3.0	4 x USB3.0	4 x USB3.0	
<b>VGA</b>	1 x VGA	1 x VGA	1 x VGA	
<b>Audio</b>	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	
<b>Keyboard/Mouse</b>	2 x PS/2	2 x PS/2	2 x PS/2	
<b>VR Knob</b>	1 x VR knob	1 x VR knob	1 x VR knob	
<b>DVD</b>	Yes (Optional)	Yes (Optional)	Yes (Optional)	
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	
<b>Power Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	
<b>Environment</b>				
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C	
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	

# 5.7"~19" Arm Panel PC

## Arm Series

### Custom configuration



Memory



CPU



PoE



Housing



### Application



#### Machine Controller

"LINUX OS FOR DEMANDING CUSTOM APPLICATIONS."

When the application requires a unique software solution, HMI with open Linux system is the choice of developers.

“ CUSTOM OS IMAGE. ”

- 5.7"~19" screen with resistive touchscreen
- Arm Cortex-A9
- Android 6.0
- Linux 4.1.15, QT 5.5
- Ubuntu 16.04

---

Fanless cooling system

---

16GB eMMC, micro SD card slot

---

USB 2.0, USB OTG

---

RS232/422/485, RJ45 for Ethernet, CANBus, micro HDMI

---

Lockable power connector

---

Open frame, front IP65

---

Operating temperature 0°C to 50°C

### Accessories

#### Standard

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AC Adapter

Power Cord

Driver CD

# Arm Panel PC

Arm Cortex-A9



		5.7"	7" (16:9)	10.1" (16:9)
Model Name	IP65	R05FA3S-IPD1HM(HB)	W07FA3S-IPA3HM	W10FA3S-IPH1HM
	Open Frame	R05FA3S-OFD1HM(HB)	W07FA3S-OFA3HM	W10FA3S-OFH1HM
<b>Display</b>				
<b>Resolution</b>		640 x 480	1024 x 600	1024 x 600
<b>Panel Brightness</b>		900 nits	250 nits	200 nits
<b>Contrast Ratio</b>		300 : 1 (Typ.)	700 : 1 (Typ.)	500 : 1 (Typ.)
<b>Active Area</b>		115.2 x 86.4	153.6 x 90.0	220.4 x 129.1
<b>Viewing Angle</b>		-70~70 (H); -40~60 (V)	-75~75 (H); -75~70 (V)	-70~70 (H); -50~60 (V)
<b>Display Color</b>		262K	262K	262K
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>				
<b>Processor</b>		Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Storage</b>		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>Memory</b>		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
<b>OS</b>		Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)
<b>Connectors</b>				
<b>Serial Interface</b>		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
<b>USB</b>		1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
<b>SD Card Slot</b>		1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>HDMI</b>		1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
<b>Micro USB</b>		1 x USB OTG	1 x USB OTG	1 x USB OTG
<b>Power</b>		Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin Terminal Block
<b>Ethernet</b>		1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function	1 x RJ45 10/100/1000 LAN Support PoE function
<b>Power</b>				
<b>Power Input</b>		12V DC	12V DC	12V DC
<b>Power Consumption</b>		15W	15W	16W
<b>Power over Ethernet (PoE)</b>		PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W
<b>Mechanical</b>				
<b>Dimension</b>		160 x 129.6 x 54 mm	218 x 164.6 x 60.8 mm	286 x 182 x 49.5 mm
<b>Cooling System</b>		Fanless	Fanless	Fanless
<b>Environment</b>				
<b>Operating Temp.</b>		-0°C to +50°C	-0°C to +50°C	-0°C to +50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>		Front IP65	Front IP65	Front IP65
<b>Certifications</b>				
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC



# Arm Panel PC

Arm Cortex-A9



		15"	19"
Model Name	IP65	R15FA3S-IPC3HM	R19FA3S-IPM1HM
	Open Frame	R15FA3S-OFC3HM	R19FA3S-OFM1HM
<b>Display</b>			
<b>Resolution</b>		1024 x 768	1280 x 1024
<b>Panel Brightness</b>		250 nits	250 nits
<b>Contrast Ratio</b>		700 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Active Area</b>		304.1 x 228.1	376.3 x 301.0
<b>Viewing Angle</b>		-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>		1 6.2M	16.7M
<b>Touch</b>		Resistive touchscreen	Resistive touchscreen
<b>System</b>			
<b>Processor</b>		Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Storage</b>		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>Memory</b>		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
<b>OS</b>		Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)	Android 6.0 Ubuntu 16.04 / 18.04 Linux 4.1.15 (QT 5.5)
<b>Connectors</b>			
<b>Serial Interface</b>		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
<b>USB</b>		1 x USB 2.0	1 x USB 2.0
<b>SD Card Slot</b>		1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>HDMI</b>		1 x Micro HDMI	1 x Micro HDMI
<b>Micro USB</b>		1 x USB OTG	1 x USB OTG
<b>Power</b>		1 x 2pin Terminal Block	1 x 2pin Terminal Block
<b>Ethernet</b>		1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
<b>Power</b>			
<b>Power Input</b>		12V DC	12V DC
<b>Power Consumption</b>		18W	20W
<b>Power over Ethernet (PoE)</b>		12V DC PoE require IEEE 802.3at 25W	12V DC PoE require IEEE 802.3at 25W
<b>Power Adapter AC</b>		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Mechanical</b>			
<b>Dimension</b>		400 x 320 x 59 mm	474 x 383.9 x 71.4 mm
<b>Cooling System</b>		Fanless	Fanless
<b>Environment</b>			
<b>Operating Temp.</b>		0°C to +50°C	0°C to +50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>IP Rating</b>		Front IP65	Front IP65
<b>Certifications</b>			
<b>Safety</b>		CE, FCC	CE, FCC

# 15"~21.5" x86 Application-Ready Panel PC

## PCI Slot Series



“ CONNECTION TO CUSTOM PERIPHERALS WITH PCI SLOT. ”

- 15"~21.5" screen with resistive touchscreen
- Intel® Core™ i5
- Windows 10

---

Thermal solution with fan

---

Intel® HM76 chipset

---

Expansion slot PCI

---

Four USB 3.0

---

Two RS232, RS232/422/485, Two RJ45 for Ethernet, VGA, Two RS/2

---

Lockable power connector

---

Open frame, panel mount

---

Operating temperature 0°C to 50°C

---

### Accessories

#### Standard

---

AC Adapter

Power Cord

Driver CD

### Custom configuration



Memory



Storage



Housing



PCIe



AR Glass



PCAP  
Touchscreen

### Application



#### Assembly Line

“BRING EFFICIENCY TO PRODUCTION.”

Panel PC with PCI slot allow provide an uncomplicated connection to a number of custom peripherals on the factory floor.

# x86 PCI Slot Application-Ready Panel PC

3<sup>rd</sup> Gen. Intel® Core™ i5



		15"	17"	19"	21.5" (16:9)
Model Name	Panel Mount	R15IV7T-PMC3PS	R17IV7T-PMM1PS	R19IV7T-PMM1PS	W22IV7T-PMA3PS
	Open Frame	R15IV7T-OFC3PS	R17IV7T-OFM1PS	R19IV7T-OFM1PS	W22IV7T-OFA3PS
<b>Display</b>					
<b>Resolution</b>		1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
<b>Panel Brightness</b>		300 nits	350 nits	250 nits	250 nits
<b>Contrast Ratio</b>		2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
<b>Viewing Angle</b>		-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)	-89~89 (H); -89~89 (V)
<b>Display Color</b>		16.2M	16.2M	16.7M	16.7M
<b>System</b>					
<b>Processor</b>		Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
<b>Chipset</b>		Intel® HM76	Intel® HM76	Intel® HM76	Intel® HM76
<b>Memory</b>		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
<b>Ethernet Controller</b>		Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
<b>Storage</b>		2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD
<b>Audio</b>		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>BIOS</b>		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>OS</b>		Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7
<b>Connectors</b>					
<b>Audio</b>		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
<b>Serial</b>		2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>VGA</b>		1 x VGA	1 x VGA	1 x VGA	1 x VGA
<b>USB</b>		4 x USB3.0	4 x USB3.0	4 x USB3.0	4 x USB3.0
<b>LAN</b>		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Keyboard/Mouse</b>		2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2
<b>Environment</b>					
<b>Operating Temp.</b>		0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
<b>Humidity</b>		10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>					
<b>Safety</b>		CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 15"~19" x86 Application-Ready Panel PC

## Rack Mount Series



“ **DESIGNED FOR RACK MOUNT CABINETS.** ”

- 15"~19" screen
- Intel® Core™ i5
- Intel® Celeron® N2930
- Windows 10
- Linux

---

Thermal solution with fan

---

Intel® HM76 chipset

---

Panel Brightness adjustment knob

---

Four USB 3.0

---

Two RS232, RS232/422/485, Two RJ45 for Ethernet, VGA, Two PS/2

---

Rack mount

---

Operating temperature 0°C to 50°C

---

### Accessories

#### Standard

---

AC Adapter

Power Cord

Driver CD

### Custom configuration



Memory



Storage



DVD



PCAP  
Touchscreen



AR Glass

### Application



#### Server Room

“LARGE SCREEN TO MONITOR AND CONTROL SERVER CABINET.”

19" rack mount panel PC in a rack mount housing fits in to a server cabinets.

# x86 Rack Mount Application-Ready Panel PC

3<sup>rd</sup> Gen. Intel® Core™ i5



Model Name	15"	17"	19"
	R15IV7T-RKC3	R17IV7T-RKM1	R19IV7T-RKM1
<b>Display</b>			
<b>Resolution</b>	1024 x 768	1280 x 1024	1280 x 1024
<b>Panel Brightness</b>	300 nits	350 nits	250 nits
<b>Contrast Ratio</b>	2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>	16.2M	16.2M	16.7M
<b>Touch</b>	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
<b>System</b>			
<b>Processor</b>	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
<b>Chipset</b>	Intel® HM76	Intel® HM76	Intel® HM76
<b>Memory</b>	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB	1 x DDR3L 1333/1600MHz SO-DIMM, max.8GB
<b>Ethernet Controller</b>	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS
<b>Audio</b>	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
<b>Storage</b>	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
<b>OS</b>	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux	Windows 10 IoT Enterprise Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Linux
<b>Connectors</b>			
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Serial Interface</b>	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
<b>VGA</b>	1 x VGA (Female)	1 x VGA (Female)	1 x VGA (Female)
<b>Audio</b>	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in
<b>Keyboard/Mouse</b>	2 x PS/2	2 x PS/2	2 x PS/2
<b>DVD</b>	Optional	Optional	Optional
<b>Power</b>			
<b>Power Input</b>	12V DC	12V DC	12V DC
<b>Power Adaptor</b>	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
<b>Mechanical</b>			
<b>Dimension</b>	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
<b>Environment</b>			
<b>Operating Temp.</b>	0°C to +50°C	0°C to +50°C	0°C to +50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>			
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC



# x86 Rack Mount Application-Ready Panel PC

Intel® Celeron® N2930



Model Name	15"	17"	19"
	R15IB7T-RKC3	R17IB7T-RKM1	R19IB7T-RKM1
<b>Display</b>			
Resolution	1024 x 768	1280 x 1024	1280 x 1024
Panel Brightness	300 nits	350 nits	250 nits
Contrast Ratio	2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)	5 Wire Resistive touchscreen (Optional)
<b>System</b>			
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB	SODIMM DDR3L 1600/1333, max. 8GB
Ethernet Controller	Intel I210-AT GbE LAN	Intel I210-AT GbE LAN	Intel I210-AT GbE LAN
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
SATA	2 x SATA	2 x SATA	2 x SATA
Storage	2.5" HDD/2.5" SSD/mSATA	2.5" HDD/2.5" SSD/mSATA	2.5" HDD/2.5" SSD/mSATA
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
Other	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)	2 x Mini PCIe (1 for WiFi, 1 for 3G Module)
<b>Connectors</b>			
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Serial Interface	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
VGA	1 x VGA (Female)	1 x VGA (Female)	1 x VGA (Female)
Audio	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in	Line-out, Line-in, Mic-in
Keyboard/Mouse	2 x PS/2	2 x PS/2	2 x PS/2
DVD	Optional	Optional	Optional
<b>Power</b>			
Power Input	12V DC	12V DC	12V DC
Power Adaptor	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%	AC 110~240V, Universal, ±10%
<b>Mechanical</b>			
Dimension	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
<b>Environment</b>			
Operating Temp.	0°C to 50°C	0°C to 50°C	0°C to 50°C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# 7" ~23.8" x86 G-WIN Panel PC

## G-WIN GC Series

NEW



### Custom configuration



Wide Power

### Application



#### Soybeans Harvester

"ULTIMATE IMAGES.  
COMPACT FORM-  
FACTOR."

Winmate 7" GC Series Display combines with customer's box computer helps to monitor field status and show optimal harvesting route to the farmer.

“SEMI-RUGGED SOLUTION.”

- 7" ~23.8" PCAP touchscreen
- 7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

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True flat, easy-to-clean front surface with edge-to-edge design

---

Fanless cooling system

---

Ultra low power consumption

---

Panel mount, VESA mount, standalone

---

Front IP65 waterproof and dustproof

---

### Accessories

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

# x86 G-WIN GC Series Panel PC

Intel® Core™ i5-7200U



Model Name	12.1"	15"	19"
	R12IK3S-GCM2	R15IK3S-GCC3	R19IK3S-GCM1
<b>Display</b>			
Resolution	1024 x 768	1024 x 768	1280 x 1024
Panel Brightness	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)	250 nits
Contrast Ratio	1000:1 (Typ.)	700:1 (Typ.)	1000 : 1 (typ.)
Viewing Angle	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)	-85~85(H);-80~80(V)
Display Color	16.2M	16.2M	16.7M
<b>System</b>			
Processor	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	2GB DDR4-2133 SODIMM	2GB DDR4-2133 SODIMM	4GB DDR4-2133 (Max to 16GB)
Storage	64GB M.2 SSD (up to 256GB)	64GB M.2 SSD (up to 256GB)	64GB M.2 SSD (up to 256GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>			
USB Port	2 x USB3.0	2 x USB3.0	2 x USB3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485(Default RS232)
HDMI	1 x HDMI 1.4a	1 x HDMI 1.4a	1 x HDMI 1.4a
<b>Audio</b>			
Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker	-
<b>Mechanical</b>			
Dimensions	296.2 x 226.7 x 45.5 mm	254.2 x 198 x 36.4 mm	444 x 368 x 51 mm
Cooling System	Fanless design	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm)
Operating Temp.	-15°C to 55°C	-15°C to 55°C	0°C to 55°C
Humidity	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>Power</b>			
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>			
Safety	CE, FCC	CE, FCC	CE, FCC

# x86 G-WIN GC Series Panel PC

Intel® Core™ i5-7200U  
7<sup>th</sup> Gen. Intel® Core™ i7/i5/i3

NEW



NEW



NEW



NEW



Model Name	21.5" (16:9)	21.5" (16:9)	23.8" (16:9)	23.8" (16:9)
	W22IK3S-GCA3	W22IK7T-GCA3	W24IK3S-GCA2	W24IK7T-GCA2
<b>Display</b>				
<b>Resolution</b>	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
<b>Panel Brightness</b>	250 nits	250 nits	250 nits	250 nits
<b>Contrast Ratio</b>	3000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)
<b>Display Color</b>	16.7M	16.7M	16.7M	16.7M
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i7-7700T (8M Cache, 2.9 GHz up to 3.80 GHz) Intel® Core™ i5-7500T (6M Cache, 2.7GHz up to 3.30 GHz) Intel® Core™ i3-7100T (4M Cache, 3.34 GHz)
<b>Memory</b>	4GB DDR4-2133 (Max to 16GB)	1 x SO-DIMM, Max 16Gb DDR4 2400 MHz (default 4G)	4GB DDR4-2133 (Max to 16GB)	1 x SO-DIMM, Max 16Gb DDR4 2400 MHz (default 4G)
<b>Storage</b>	64GB M.2 SSD (up to 256GB)	1 x M.2 SSD, Max 256GB 1 x 2.5" 500GB HDD (default)	64GB M.2 SSD (up to 256GB)	1 x M.2 SSD, Max 256GB 1 x 2.5" 500GB HDD (default)
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>				
<b>USB Port</b>	2 x USB3.0	4 x USB 3.0	2 x USB3.0	4 x USB 3.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>COM Port</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
<b>HDMI</b>	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
<b>Mechanical</b>				
<b>Dimensions</b>	529 x 320.4 x 50 mm	529 x 322 x 71 mm	587 x 356 x 55 mm	587 x 356 x 75 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (75 x 75, 100 x 100mm), Panel Mount	VESA Mount (100 x 100mm), Panel Mount	VESA Mount (100 x 100mm), Panel Mount
<b>Operating Temp.</b>	0°C to 50°C	0°C to 50°C	0°C to 50°C	0°C to 50°C
<b>Humidity</b>	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Power</b>				
<b>Power Input</b>	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07IB3S-GCO1	W10IB3S-GCH1	R10IB3S-GCT2	R12IB3S-GCM2	R15IB3S-GCC3
<b>Display</b>					
<b>Resolution</b>	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
<b>Panel Brightness</b>	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
<b>Contrast Ratio</b>	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
<b>Active Area</b>	153.6 x 90.0	222.72 x 125.28	210.4 x 157.8	245.76 x 184.32	304.1 x 228.1
<b>Viewing Angle</b>	-75~75(H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.2M	16.7M	16.2M	16.2M	16.2M
<b>System</b>					
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB	2GB DDR3L-1600 SODIMM max 8GB
<b>Storage</b>	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>					
<b>USB Port</b>	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0	1 x USB3.0, 1 x USB2.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>COM Port</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>HDMI</b>	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
<b>Speaker</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker
<b>Mechanical</b>					
<b>Dimensions</b>	189.4 x 145.4 x 39.8 mm	263.28 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm	296.2 x 226.7 x 45.5 mm	363.4 x 227.8 x 44.5 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (75 x 75mm), Panel Mount	VESA Mount (75 x 75mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75mm), Panel Mount
<b>Power</b>					
<b>Power Input</b>	12V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC



# x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	19"	19"	21.5" (16:9)	21.5" (16:9)
	R19IB3S-GCM1	R19IB7T-GCM1	W22IB3S-GCA3	W22IB7T-GCA3
<b>Display</b>				
<b>Resolution</b>	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
<b>Panel Brightness</b>	250 nits	250 nits	250 nits	250 nits
<b>Contrast Ratio</b>	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
<b>Viewing Angle</b>	-85~85 (H);-80~80 (V)	-85~85 (H);-80~80 (V)	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)
<b>Display Color</b>	16.7M	16.7M	16.7M	16.7M
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB
<b>Storage</b>	64GB M.2 SSD	mSATA SSD 64GB (Default)	64GB M.2 SSD	mSATA SSD 64GB (Default)
<b>OS</b>	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise /Windows Embedded 8.1 Industry Pro /Windows Embedded Standard 7 /Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>USB Port</b>	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
<b>Ethernet</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>COM Port</b>	1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	2 x RS232 1 x RS232/422/485 (Default RS232)
<b>HDMI</b>	1 x HDMI (HDMI 1.4)	-	1 x HDMI (HDMI 1.4)	-
<b>VGA</b>	-	1 x VGA (female)	-	1 x VGA (female)
<b>Audio</b>	-	Line-out, Line-in, Mic-in	-	Line-out, Line-in, Mic-in
<b>Mechanical</b>				
<b>Dimensions</b>	444 x 368 x 51 mm	444 x 368 x 71 mm	529 x 320.4 x 50 mm	529 x 320.4 x 71 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (100 x 100 mm)	VESA Mount (75 x75, 100 x 100 mm)	VESA Mount (100 x 100mm), Panel Mount	VESA Mount (75 x75, 100 x 100 mm)
<b>Power</b>				
<b>Power Input</b>	12V DC	12V DC	12V DC	12V DC
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 G-WIN GC Series Panel PC

Intel® Celeron® N2930



Model Name	23.8" (16:9)	23.8" (16:9)
	W24IB3S-GCA2	W24IB7T-GCA2
<b>Display</b>		
Resolution	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits
Contrast Ratio	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)
Display Color	16.7M	16.7M
<b>System</b>		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
Memory	4GB DDR3L-1600 GHz max 8GB	SODIMM DDR3L 1600, max. 8GB
Storage	64GB M.2 SSD	mSATA SSD 64GB (Default)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>		
USB Port	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI (HDMI 1.4)	1 x HDMI (HDMI 1.4)
<b>Mechanical</b>		
Dimensions	587 x 356 x 55 mm	587 x 356 x 55 mm
Cooling System	Fanless design	Fanless design
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
Operating Temp.	0 °C to 50 °C	0 °C to 50 °C
Humidity	10% to 90% (Non-condensing, RH)	10% to 90% (Non-condensing, RH)
<b>Power</b>		
Power Input	12V DC	12V DC
<b>Certifications</b>		
Safety	CE, FCC	CE, FCC

# 7~15" Arm G-WIN Panel PC

## G-WIN GC Series

NEW



### Custom configuration



Wide Power

### Application



### **Harvesting Equipment**

"HIGH PERFORMANCE  
IN A COMPACT FORM  
FACTOR."

The GC series comes with brilliant true-flat screens for superior readability and high computing performance for helping the driver to monitor field status and show optimal harvesting route.

“**ELEGANT, YET TOUGH.**”

- 7~15" PCAP touchscreen
- Arm Cortex-A9
- Arm Cortex-A72 + Arm Cortex-A53
- Android 6.0

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True flat, easy-to-clean front surface with edge-to-edge design

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Fanless cooling system

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Ultra low power consumption

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Front IP65 waterproof and dustproof

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### **Accessories**

RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

# Arm G-WIN GC Series Panel PC

Arm Cortex-A9



Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07FA3S-GCO1	W10FA3S-GCH1	R10FA3S-GCT2	R12FA3S-GCM2	R15FA3S-GCC3
<b>Display</b>					
<b>Resolution</b>	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
<b>Panel Brightness</b>	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
<b>Contrast Ratio</b>	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
<b>Active Area</b>	153.6x 90.0	222.72x 125.28	210.4 x 157.8	245.76 x 184.32	210.4 x 157.8
<b>Viewing Angle</b>	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.7M	16.7M	16.2M	16.2M	16.2M
<b>System</b>					
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0	Android 6.0	Android 6.0	Android 6.0	Android 6.0
<b>Connectors</b>					
<b>USB Port</b>	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)
<b>Ethernet</b>	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
<b>COM Port</b>	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)	2 x RS232/422/485 (Default RS232)
<b>SD Slot</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Speaker</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker
<b>Mechanical</b>					
<b>Dimensions</b>	189.4 x 145.4 x 39.8 mm	263.48 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 44.5 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
<b>Power</b>					
<b>Power Input</b>	9~24V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# Arm G-WIN GC Series Panel PC

Arm Cortex-A72 + Arm Cortex-A53



Model Name	7" (16:9)	7" (16:9)	10.1" (16:9)	10.4"
	W07RK3S-GCT1	W07RK3S-GCO1	W10RK3S-GCH1	R10RK3S-GCT2
<b>Display</b>				
<b>Resolution</b>	1024 x 600	1024 x 600	1024 x 600	1024 x 768
<b>Panel Brightness</b>	320 nits	1000 nits	450 nits	300 nits
<b>Contrast Ratio</b>	500:1 (Typ.)	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
<b>Viewing Angle</b>	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.7M	16.7M	16.7M	16.2M
<b>System</b>				
<b>Processor</b>	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
<b>Memory</b>	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)
<b>Connectors</b>				
<b>USB Port</b>	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
<b>Ethernet</b>	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio
<b>COM Port</b>	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
<b>SD Slot</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Speaker</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
<b>HDMI</b>	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
<b>Mechanical</b>				
<b>Dimensions</b>	189.4 x 145.4 x 39.8 mm	189.4 x 145.4 x 39.8 mm	263.28 x 172 x 40.2 mm	252.4 x 198 x 36.4 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
<b>Power</b>				
<b>Power Input</b>	9~24V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC



# Arm G-WIN GC Series Panel PC

Arm Cortex-A72 + Arm Cortex-A53



Model Name	12.1"	15"
	R12RK3S-GCM2	R15RK3S-GCC3
<b>Display</b>		
Resolution	1024 x 768	1024 x 768
Panel Brightness	500 nits	1000 nits
Contrast Ratio	700:1 (Typ.)	2000:1 (Typ.)
Viewing Angle	-80~80 (H);-70~70 (V)	-88~88 (H);-88~88 (V)
Display Color	16.2M	16.2M
<b>System</b>		
Processor	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (default)	Android 7.1 (default)
<b>Connectors</b>		
USB Port	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG	1 x USB 3.0, 1 x USB 2.0, 1 x USB OTG
Ethernet	1 x RJ45 10/100/1000 LAN Support PoE functio	1 x RJ45 10/100/1000 LAN Support PoE functio
COM Port	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
HDMI	1 x Micro HDMI	1 x Micro HDMI
<b>Mechanical</b>		
Dimensions	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 44.5 mm
Cooling System	Fanless design	Fanless design
Mounting	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
<b>Power</b>		
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
<b>Certifications</b>		
Safety	CE, FCC	CE, FCC

# 10.1"~15" x86 G-WIN Panel PC

## G-WIN GS Series

### Custom configuration



Wide Power



### Application



#### **Wood Harvester**

"FOR DEMANDING LOGGING CONDITIONS."

Winmate 10.4" GS Series Panel PC was installed inside a wood harvester. G-WIN panel PC designed for demanding conditions survives both water drops and temperature changes.

**“ TOUGH. RUGGED. HEAVY DUTY. ”**

- 10.1"~15" PCAP touchscreen
- Intel® Celeron® N2930
- Windows 10/8/7

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M12 waterproof connectors

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Tested MIL-STD 810-G, MIL-STD 461-F

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Mounting solution for vehicle applications

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Power ignition control

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Full IP65 waterproof and dust proof

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Wide operating temperature

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### **Accessories**

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RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

# x86 G-WIN GS Series Panel PC

Intel® Celeron® N2930



Model Name	10.1" (16:9)	10.4"	12.1"	15"
	W10IB3S-GSH1	R10IB3S-GST2	R12IB3S-GSM2	R15IB3S-GSC3
<b>Display</b>				
<b>Resolution</b>	1024 x 600	1024 x 768	1024 x 768	1024 x 768
<b>Panel Brightness</b>	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (optional 1000 nits)	250 nits (optional 1000 nits)
<b>Contrast Ratio</b>	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
<b>Active Area</b>	222.72x 125.28	210.4 x 157.8	245.16 x 184.32	304.1 x 228.1
<b>Viewing Angle</b>	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.7M	16.2M	16.2M	16.2M
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>Memory</b>	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)
<b>Storage</b>	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	mSATA SSD 64GB max. 512GB
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>USB</b>	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)	1 x USB 2.0 (M12 Type)
<b>Ethernet</b>	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
<b>COM</b>	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
<b>Power</b>	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
<b>Audio</b>				
<b>Speaker</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
<b>Mechanical</b>				
<b>Dimensions</b>	263.28 x 172 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.40 x 277.81 x 45.2 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
<b>Operating Temp.</b>	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
<b>Humidity</b>	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>Power</b>				
<b>Power Input</b>	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# Arm G-WIN Panel PC

## G-WIN GS Series

### Custom configuration



Wide Power



### Application



#### **Straw Collector**

“INTERACTIVE AND SMART TERMINAL FOR HEAVY-DUTY VEHICLE USE”

Tailored for those who are in demand of excellent in-vehicle computing systems operated in rugged environments that experience shock and vibration.

“ **SATISFY YOUR HEAVY-DUTY NEEDS.** ”

- 7" ~15" PCAP touchscreen
- Arm Cortex-A9
- Android

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M12 waterproof connectors

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Tested MIL-STD-810G, MIL-STD-461F

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Mounting solution for vehicle applications

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Power ignition control

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Full IP65 waterproof and dust proof

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Wide operating temperature

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### **Accessories**

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RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

# Arm G-WIN GS Series Panel PC

Arm Cortex-A9



Model Name	7" (16:9)	10.1" (16:9)	10.4"	12.1"	15"
	W07FA3S-GSO1	W10FA3S-GSH1	R10FA3S-GST2	R12FA3S-GSM2	R15FA3S-GSC3
<b>Display</b>					
<b>Resolution</b>	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
<b>Panel Brightness</b>	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
<b>Contrast Ratio</b>	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
<b>Active Area</b>	153.6 x 90.0	222.72 x 125.28	210.4 x 157.8	245.16 x 184.32	304.1 x 228.1
<b>Viewing Angle</b>	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.7M	16.7M	16.2M	16.2M	16.2M
<b>System</b>					
<b>Processor</b>	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
<b>Memory</b>	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
<b>Storage</b>	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
<b>OS</b>	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)	Android 6.0 (Default) Ubuntu 16.04 (Optional)
<b>Connectors</b>					
<b>USB</b>	1 X USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB2.0, 1 x USB OTG, 1 x Console (For Linux)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On side)	1 x USB 2.0 (M12 Type) 1 x USB OTG (On Bottom)
<b>Ethernet</b>	1 x 10/100/1000 LAN (M12 type)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 Mbps (LAN)	1 x 10/100/1000 LAN (M12 Type)	1 x 10/100/1000 LAN (M12 Type)
<b>COM</b>	1 x RS232 (M12 type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)	1 x RS232 (M12 Type) (Optional 422/485)
<b>SD Slot</b>	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
<b>Power</b>	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
<b>Audio</b>					
<b>Speaker</b>	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
<b>Mechanical</b>					
<b>Dimensions</b>	189.4 x 145.4 x 39.8 mm	263.28 x 171 x 35.7 mm	252.4 x 198 x 43 mm	296.2 x 226.7 x 45.5 mm	363.4 x 277.8 x 45.2 mm
<b>Cooling System</b>	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
<b>Mounting</b>	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount
<b>Operating Temp</b>	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C
<b>Humidity</b>	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)
<b>Power</b>					
<b>Power Input</b>	9~24V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)
<b>Certifications</b>					
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# 8.4"~19" x86 G-WIN Panel PC

## G-WIN VM Series

### Custom configuration



Wide Power



### Application



#### **Firefighter Truck**

"DURABLE IN-VEHICLE  
COMPUTER."

Winmate 15" panel  
PC was installed inside a  
firefighter truck for navigation  
purposes.

**“ TOUGH. RUGGED.  
HEAVY DUTY. ”**

- 8.4"~19" screen
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

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Tested MIL-STD-810G, MIL-STD-461F

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Compliance with EN50155

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Mounting solution for vehicle applications

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Power ignition control

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Wide operating temperature

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### **Accessories**

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RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD



# x86 G-WIN VM Series Panel PC

Intel® Core™ i5-7200U



Model Name	10.4"	15"
	R10IK3S-VMT2	R15IK3S-VMC3(HB)
<b>Display</b>		
<b>Resolution</b>	1024 x 768	1024 x 768
<b>Brightness</b>	350 nits	300 nits (Optional 1000 nits High Brightness)
<b>Contrast Ratio</b>	1000 :1 (Typ.)	2000:1 (Typ.)
<b>Active Area</b>	201.4 x 157.8	304.128 x 228.096
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	16.2M	16.2M
<b>System</b>		
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>BIOS</b>	Insyde BIOS	Insyde BIOS
<b>Memory</b>	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)
<b>Storage</b>	M.2 SSD (Default 64GB, max.512GB)	M.2 SSD (Default 64GB, max.512GB)
<b>OS</b>	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
<b>Connectors</b>		
<b>Serial Interface</b>	1 x RS232, 1 x RS232/422/485 (Default RS232)	1 x RS232, 1 x RS232 (Optional) 1 x RS232/422/485 (Default RS232)
<b>USB</b>	2 x USB 3.0	2 x USB 3.0
<b>LAN</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Power</b>	1 x DC-in Jack (Phoenix type)	1 x Terminal Block
<b>HDMI</b>	1 x HDMI	1 x HDMI
<b>CANBus</b>	-	1 x CANBus (Optional)
<b>Digital I/O</b>	-	1 x Digital I/O (Optional)
<b>Antenna</b>	WLAN antenna SMA in top (Optional)	WLAN antenna SMA in top (Optional)
<b>Power</b>		
<b>Power Input</b>	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) with Isolation Optional 6~60V DC, with Ignition On/Off delay
<b>Certifications</b>		
<b>Safety</b>	CE, FCC	CE, FCC

# x86 G-WIN VM Series Panel PC

Intel® Celeron® N2930



Model Name	8.4"	10.4"	10.4"	10.4"
	R08IB3S-VMU1	R10IB3S-VMP1	R10IB3S-VMP3	R10IB3S-VMT2
<b>Display</b>				
<b>Resolution</b>	800 x 600	800 x 600	640 x 480	1024 x 768
<b>Brightness</b>	600 nits	600 nits	400 nits	350 nits
<b>Contrast Ratio</b>	600:1 (Typ.)	400:1 (Typ.)	700:1 (Typ.)	1000:1 (Typ.)
<b>Active Area</b>	170.4 x 127.8	211.2 x 158.4	211.2 x 158.4	201.4 x 157.8
<b>Viewing Angle</b>	-75~75 (H); -70~60 (V)	-70~70 (H); -70~60 (V)	-80~80 (H); -60~80 (V)	-88~88 (H); -88~88 (V)
<b>Display Color</b>	262K	16.2M	16.2M	16.2M
<b>System</b>				
<b>Processor</b>	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
<b>BIOS</b>	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
<b>Memory</b>	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB	1 x DDR3L 1600 MHz SO-DIMM max. 8GB
<b>Ethernet</b>	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
<b>Storage</b>	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB
<b>Expansion Slot</b>	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)	1 x Mini PCIe slot (For wireless module) 1 x Mini PCIe slot (For SATA SSD)
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>Serial Interface</b>	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232 1 x RS232/422/485 (Default RS232)
<b>USB</b>	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
<b>LAN</b>	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
<b>Power</b>	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)	1 x DC-in Jack (Phoenix type)
<b>HDMI</b>	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
<b>Antenna</b>	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)	1 x WLAN antenna SMA on top (Optional)
<b>Power</b>				
<b>Power Input</b>	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
<b>AC Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC	CE, FCC	CE, FCC

# x86 G-WIN VM Series Panel PC

Intel® Celeron® N2930



Model Name	12.1" (16:10)	15"
	W12IB3S-VMM9	R15IB3S-VMC3(HB)
<b>Display</b>		
Resolution	1280 x 800	1024 x 768
Brightness	400 nits	300 nits (Optional 1000 nits High Brightness)
Contrast Ratio	1000:1 (Typ.)	2000:1 (Typ.)
Active Area	261.12 x 163.2	304.1 x 228.1
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	262K	16.2M
<b>System</b>		
Processor	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)	Intel® Celeron® N2930 (2M Cache, up to 2.16 GHz)
BIOS	AMI BIOS	AMI BIOS
Memory	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB	1 x DDR3L 1600 MHz SO-DIMM Max. 8GB
Storage	mSATA SSD default 64GB (Max. 512GB)	mSATA SSD default 64GB (Max. 512GB)
OS	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>		
Serial Interface	1 x RS232 1 x RS232/422/485 (Default RS232)	1 x RS232, 1 x RS232 (Optional), 1 x RS232/422/485 (Default RS232)
USB	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 (10/100/1000 Mbps)	2 x RJ45 (10/100/1000 Mbps)
Power	1 x Terminal Block	1 x Terminal Block
HDMI	1 x HDMI	1 x HDMI
CANBus	-	1 x CANBus (Optional)
Digital I/O	-	1 x Digital I/O (Optional)
Antenna	1 x WLAN or 4G Antenna in top (Optional)	1 x WLAN or 4G Antenna in top (Optional)
<b>Power</b>		
Power Input	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay	9~36V DC (Phoenix type) Optional 6~60V DC, with Ignition On/Off delay
AC Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Certifications</b>		
Safety	CE, FCC	CE, FCC

# 15"/19" x86 G-WIN Panel PC

## G-WIN IP67 Series

### Custom configuration



High  
Brightness



Wide Power



### Application



#### Mining Crane Automation

"WITHSTAND EXTREME  
COLD TEMPERATURES."

Winmate 19" panel  
PC R19IB3S-67FTP with high  
brightness screen and heater  
was installed inside a  
mining crane for monitoring  
precise pick-up and drop-off  
location.

## “ WATER AND DUST PROOF.

”

- 15"/19" screen
- Intel® Core™ i5-7200U
- Windows 10

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Tested MIL-STD-810G, MIL-STD-461F

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Magnesium alloy housing with anti-corrosion

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Mounting solution for vehicle applications

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Power ignition control

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IP67 waterproof and dustproof

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Wide operating temperature

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### Accessories

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RS232 Cable

VGA Cable

USB Cable

Power Cable

Driver CD

# x86 G-WIN IP67 Series Panel PC

Intel® Core™ i5-7200U



Model Name	15" (IP67)	19" (IP67)	15" (IP67)	19" (IP67)
	R15IK3S-67C3(HB)	R19IK3S-67FTP(HB)	R15IB3S-67C3(HB)	R19IB3S-67FTP(HB)
<b>Display</b>				
<b>Resolution</b>	1024 x 768	1280 x 1024	1024 x 768	1280 x 1024
<b>Panel Brightness</b>	300 nits (Optional 1000 nits High Brightness)	400 nits (Optional 1000 nits High Brightness)	300 nits (Optional 1000 nits High Brightness)	400 nits (Optional 1000 nits High Brightness)
<b>Contrast Ratio</b>	2000:1 (Typ.)	1000 : 1 (Typ.)	2000:1 (Typ.)	1000 : 1 (Typ.)
<b>Viewing Angle</b>	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
<b>Display Color</b>	16.2M	16.7M	16.2M	16.7M
<b>Touch</b>	5 Wire Resistive touchscreen	PCAP touchscreen	5 Wire Resistive touchscreen	PCAP touchscreen
<b>System</b>				
<b>Processor</b>	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
<b>Memory</b>	1 x DDR4 2133 MHz SO-DIMM, 4GB default, max. 16GB	1 x DDR4 2133 MHz SO-DIMM, 4GB default, max. 16GB	1 x DDR3L 1600 MHz SO-DIMM (Default 4GB, max. 8GB)	1 x DDR3L 1600 MHz SO-DIMM (Default 4GB, max. 8GB)
<b>BIOS</b>	Insyde BIOS	Insyde BIOS	AMI BIOS	AMI BIOS
<b>Storage</b>	M.2 SATA III SSD, default 64GB, max. 512GB	M.2 SATA III SSD 64GB default, max. 512GB	mSATA SSD default 64GB (Max. 512GB)	mSATA SSD default 64GB (Max. 512GB)
<b>OS</b>	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System	Windows 10 IoT Enterprise / Windows Embedded 8.1 Industry Pro / Windows Embedded Standard 7 / Windows 7 Pro for Embedded System
<b>Connectors</b>				
<b>USB</b>	2 x USB 2.0 (Waterproof, IP67 grade)	1 x IP67 USB A Type connector with cover	2 x USB 2.0 (waterproof, IP67 grade)	1 x IP67 USB A Type connector with cover
<b>LAN</b>	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)	1 x RJ45 10/100/1000 (Waterproof, IP67 grade)
<b>Power</b>	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)	1 x DC-in (Waterproof, IP67 grade)
<b>Serial Interface</b>	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)
<b>Mechanical</b>				
<b>Dimensions</b>	398 x 308 x 58 mm	474 x 410 x 143.5 mm	398 x 308 x 58 mm	474 x 410 x 143.5 mm
<b>Operating Temp.</b>	-10°C to 55°C	-10°C to 60°C (Optional built-in Intelligent Heater to avoid moisture)	-10°C to 55°C	-10°C to 60°C (Optional built-in Intelligent Heater to avoid moisture)
<b>Humidity</b>	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
<b>Power</b>				
<b>Power Input</b>	9~36V DC with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation	9~36V DC with Isolation Optional 6~60V DC, with Ignition On/Off delay	9~36V DC with Isolation
<b>AC Adapter</b>	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
<b>Certifications</b>				
<b>Safety</b>	CE, FCC	CE, FCC, UL508, UL60950-1, CSA C22.2 No. 60950-1-07, EN60950-1, IEC60950-1	CE, FCC Class B, MIL-STD-810F/G	UL60950-1, CSA C22.2 No. 60950-1-07, EN60950-1, IEC60950-1, MIL-STD-810G Method 516.6, CE, FCC, UL508