

INDUSTRIAL PANEL PC

Industrial Panel PC

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x86 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.

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

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

			
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S Series HMI	Kaby Lake Series Panel PC	Bay Trail Series Panel PC	G-WIN Series Panel PC
p.55	p.63	p.69	p.85

Arm Panel PC and HMI

			
E Series HMI	EL Series HMI	PT Series HMI	S Series HMI
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Arm Series Panel PC	G-WIN Series Panel PC		
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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

SUS316 stainless steel

Waterproof connectors

4 GB DDR3 1600 MHz

64 GB mSATA SSD

USB 2.0, RJ45 for Ethernet, RS232

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

Supports VESA mount, yoke mount

IP65 waterproof and dustproof

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	VESA screws	Driver CD & Manual converter	

Custom configuration



Memory



Wide Power Input



Bluetooth



Wi-Fi

Application



Factory Automation

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

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
Display				
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
System				
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)
Connectors				
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
Mechanical				
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)
Environment				
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
Certifications				
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

SUS316 stainless steel

Waterproof sealed conduit pipe

4GB DDR4 2133

64GB B-key M.2 2242

USB 3.0

RS232

RJ45 for Ethernet

Supports VESA mount, panel mount and Yoke mount

IP69K waterproof and dustproof

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
Display				
Resolution	1024 x 768	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	2000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Viewing Angle	-88~88(H);-88~88(V)	-85~85(H);-80~80(V)	-89~89(H);-89~89(V)	-89~89(H);-89~89(V)
Display Color	16.2M	16.7M	16.7M	16.7M
System				
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)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	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)
Ethernet Controller	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
Storage	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)
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
OS	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)
Connectors				
Serial	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	2 x USB 3.0	2 x USB 3.0	2 x USB 3.0	2 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	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output	1 x HDMI 1.4 output
Mechanical				
Dimension	356 x 280 x 56mm	445 x 370 x 56mm	531 x 322 x 56mm	600 x 369 x 56mm
Environment				
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	IP69K	IP69K	IP69K	IP69K
Certifications				
Safety	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

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

Operating temperature 0°C to 45°C

Accessories

Standard

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 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
Display			
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
System			
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
Connectors			
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
Mechanical			
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)
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.)	56W (Typ.)	66W (Typ.)
Certifications			
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
Display				
Resolution	1024 x 768	1024 x 768	1280 x 1024	1920 x 1080
Panel Brightness	350 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	304.1 x 228.1	304.1 x 228.1	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)	-89~89 (H); -89~89 (V)
Display Color	16.2M	16.2M	16.7M	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System				
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)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	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)
Storage	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)
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
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
Connectors				
Serial Interface	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
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
Mechanical				
Dimension	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
Operating Temp.	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)
IP Proof	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve	Full IP69K, air venting valve
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	45W (Typ.)	56W (Typ.)
Certifications				
Safety	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, 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
Display			
Resolution	1024 x 768	1280 x 768	1280 x 1024
Panel Brightness	350 nits	250 nits	400 nits
Contrast Ratio	1000 : 1 (Typ.)	700 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area	210.4 x 157.8	304.1 x 228.1	376.32 x 301.056
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88(V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)	5 Wire Resistive touchscreen, AR Glass (Optional)
System			
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)
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
Storage	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
Ethernet Controller	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
Connectors			
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 Lockable Power Jack	1 x Lockable Power Jack	1 x Lockable Power Jack
Mechanical			
Dimensions	311 x 257 x 46.4 mm	381.8 x 310 x 56.4 mm	457.4 x 370 x 61.9 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)
Net Weight	7.1 kg	7.3kg	10.2kg
IP Rating	Full IP67	Full IP67	Full IP67
Mounting	VESA Mount (75 x 75 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)
Power			
Power Input	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	45W (Typ.)
Certifications			
Safety	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

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

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
Display				
Resolution	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	3000:1 (Typ.)
Active Area	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)	-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	16.7M
Touch	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen	PCAP touchscreen
System				
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)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde 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	1 x DDR4 2133MHz 4GB (Default), max. 16GB
Storage	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
Ethernet Controller	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
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
Serial Interface	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
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
Mechanical				
Dimensions	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
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)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	52W (Typ.)	56W (Typ.)	56W (Typ.)	66W (Typ.)
Certifications				
Safety	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
Display					
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
System					
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
Connectors					
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
Mechanical					
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)
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	33W (Typ.)	38W (Typ.)	43W (Typ.)	45W (Typ.)	56W (Typ.)
Certifications					
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
Display					
Resolution	1024 x 768	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness	500 nits	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	2500:1 (Typ.)	700 : 1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	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
Viewing Angle	-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)
Display Color	16.2M	16.2M	16.7M	16.7M	16.7M
Touch	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
System					
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	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)
Storage	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
Ethernet Controller	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
Audio	Realtek HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec	Built in HD Audio Codec
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
Connectors					
Serial Interface	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)
USB	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)
Mechanical					
Dimensions	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
Operating Temp.	-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
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)	30% to 90% (Non-condensing, RH)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	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)
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	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)
Certifications					
Safety	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
Display				
Resolution	1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Brightness	250 nits	350 nits	250 nits	250 nits
Contrast Ratio	700:1(Typ.)	1000:1 (Typ.)	1000:1 (Typ.)	1000:1 (Typ.)
Active Area	304.1 x 228.1	337.92 x 270.34	376.32 x 301.06	476.64 x 268.11
Viewing Angle	-80~80 (H); -70~70 (V)	-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	16.7M
Touch	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
System				
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)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS	Insyde BIOS
Memory	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)	DDR4-2133 SO-DIMM (Max 16GB)
Storage	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)
Ethernet Controller	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
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
Serial Interface	1 x RS232	1 x RS232	1 x RS232	1 x RS232
USB	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0	2 x USB 2.0
Mechanical				
Dimensions	384 x 311 x 61 mm	416 x 350 x 61 mm	460 x 385 x 63 mm	550 x 340 x 65 mm
Operating Temp.	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)
IP Rating	Full IP65	Full IP65	Full IP65	Full IP65
Mounting	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 100 mm)	VESA Mount (100 x 200 mm)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Power Consumption	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
Certifications				
Safety	CE, FCC	CE, FCC	CE, FCC,	CE, FCC

7"~15.6" x86 HMI E Series

Custom configuration



Memory



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.

“**ELEGANT DESIGN.**”

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

Fanless cooling system

64GB mSATA SSD

USB 3.0, USB 2.0

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

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

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
Display				
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
System				
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
Connectors				
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
Power				
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%
Mechanical				
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
Environment				
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
Certifications				
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

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
Display				
Resolution	1024 x 600	1280 x 800	1024 x 768	1920 x 1080
Panel Brightness	320 nits	350 nits	300 nits	300 nits
Contrast Ratio	1000 : 1 (Typ.)	800 : 1 (Typ.)	700 : 1 (Typ.)	800 : 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
System				
Processor	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)
Memory	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	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)
Connectors				
Power	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin terminal block	1 x 2pin 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	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)	1 x RS232/422/485 (Default RS232)
USB	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
Memory Card	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
CAN BUS	1 x CANBUS	1 x CANBUS	1 x CANBUS	1 x CANBUS
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Debug	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug	1 x Mini USB to Debug
Power				
Power Input	9~24V DC	12V DC	12V DC	12V DC
Power over Ethernet	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
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%
Mechanical				
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	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Environment				
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
Certifications				
Safety	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

Fanless cooling system

1GB LPDDR3, 8GB eMMC

USB 2.0, USB OTG

RS485, RJ45 for Ethernet

Panel mount, VESA mount

Front IP65

Operating temperature -20°C to 50°C

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
Display					
Resolution	480 x 272	1024 x 600	1024 x 600	1280 x 800	1920 x 1080
Panel Brightness	400 nits	300 nits	320 nits	350 nits	300 nits
Contrast Ratio	1000 : 1 (Typ.)	400 : 1 (Typ.)	1000 : 1 (Typ.)	800 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-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)
Display Color	16.7M	256k	16.7M	16.7M	262k
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System					
Processor	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)
Memory	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)	Onboard 8GB eMMC (Default)
OS	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)
Connectors					
DC-Input	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin	Terminal Block 3pin
USB Port	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
Ethernet	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
COM Port	1 x RS485	1 x RS485	1 x RS485	1 x RS485	1 x RS485
Power					
Power Input	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
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%
Mechanical					
Dimension	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
Mounting	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
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Environment					
Operating Temp.	-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
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)
IP Rating	Front IP65	Front IP65	Front IP65	Front IP65	Front IP65
Certifications					
Safety	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

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
Display			
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
System			
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
Connectors			
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
User Controls			
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
Power			
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%
Mechanical			
Dimension	322 x 256 x 91 mm	367 x 291 x 80 mm	398.16 x 335.54 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
Environment			
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
Certifications			
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
Display		
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
System		
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
Connectors		
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
User Controls		
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
Power		
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%
Mechanical		
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
Environment		
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
Certifications		
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
Display			
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
System			
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
Connectors			
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
User Controls			
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
Power			
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%
Mechanical			
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
Environment			
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
Certifications			
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
Display			
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
System			
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
Connectors			
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
User Controls			
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
Power			
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%
Mechanical			
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
Environment			
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
Certifications			
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
- 7th Gen. Intel® Core™ i7/i5/i3
- Intel® Celeron® N2930
- Windows 10/8/7

Fanless cooling system

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

Accessories

Standard

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 15" open frame HMI and data reader components brings automation to gas stations.

x86 PO Series HMI

7th Gen. Intel® Core™ i7/i5/i3



Model Name	15"	15.6" (16:9)	17"
	R15IK7T-POC3	W15IK7T-POA4	R17IK7T-POM1
Display			
Resolution	1024 x 768	1920 x 1080	1280 x 1024
Panel Brightness	300 nits	300 nits	350 nits
Contrast Ratio	2000 : 1 (Typ.)	800 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H);-85~85 (V)	-85~85 (H); -80~80 (V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
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
Connectors			
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
Power			
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%
Mechanical			
Dimension	350 x 292 x 48 mm	392 x 268 x 65 mm	407 x 338 x 69 mm
Mounting	Open Frame	Open Frame	Open Frame
Cooling System	Fanless	Fanless	Fanless
Environment			
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
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 PO Series HMI

7th Gen. Intel® Core™ i7/i5/i3



Model Name	19"	21.5" (16:9)	23.8" (16:9)
	R19IK7T-POM1	W22IK7T-POA3	W24IK7T-POA2
Display			
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
System			
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
Connectors			
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
Power			
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%
Mechanical			
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
Environment			
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
Certifications			
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)
	W07IB3S-POT1	W10IB3S-POA1	R15IB7T-POC3	W15IB7T-POA4
Display				
Resolution	1024 x 600	1920 x 1200	1024 x 768	1920 x 1080
Panel Brightness	320 nits	700 nits	300 nits	300 nits
Contrast Ratio	500 : 1 (Typ.)	800 : 1 (Typ.)	2000 : 1 (Typ.)	800 : 1 (Typ.)
Viewing Angle	-75~75 (H); -75~70 (V)	-89~89 (H); -89~89 (V)	-88~88(H);-88~88(V)	-85~85(H);-85~85(V)
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive	Projected Capacitive
System				
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	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
Storage	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
Ethernet Controller	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT 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
Connectors				
Serial	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)
Power Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
USB Port	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
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	1 x HDMI	1 x HDMI	-	-
VGA	-	-	1 x VGA (female)	1 x VGA (female)
Power				
Power Input	12V DC	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%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	208 x 126 x 46 mm	250 x 187 x 48 mm	360 x 272 x 72 mm	392 x 268 x 74 mm
Mounting	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
Cooling System	Fanless	Fanless	Fanless	Fanless
Environment				
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)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications				
Safety	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
Display				
Resolution	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	350 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85(H);-80~80(V)	-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	Projected Capacitive
System				
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	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
Storage	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)	64GB mSATA SSD (Up to 512GB)
Ethernet Controller	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT GbE	Dual Intel® I210AT 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
Connectors				
Serial	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)
Power Input	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack	1 x DC-in Power Jack
USB Port	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
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	-	-	-	-
VGA	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)	1 x VGA (female)
Power				
Power Input	12V DC	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%	AC 110~240 V, Universal, ±10%
Mechanical				
Dimension	407 x 338 x 78 mm	457 x 382 x 71 mm	525 x 316 x 72 mm	615 x 385 x 75 mm
Mounting	Open Frame Mount	Open Frame Mount	Open Frame Mount	Open Frame Mount
Cooling System	Fanless	Fanless	Fanless	Fanless
Environment				
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)
Operating Temp.	0°C to +50°C	0°C to +50°C	0°C to +50°C	0°C to +50°C
Certifications				
Safety	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

Fanless cooling system

Panel Brightness adjustment knob

Two USB 3.0

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

Panel mount, VESA mount

Front IP65

Operating temperature 0°C to 50°C

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
Display					
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
System					
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
Connectors					
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
Power					
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%
Mechanical					
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
Environment					
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)
Certifications					
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
Display					
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
System					
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)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	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
Ethernet Controller	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
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	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
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors					
Back Side	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
Power					
Power Input	12V DC	12V DC	12V DC	12V DC	12V DC
Power Consumption	80W	80W	80W	80W	80W
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%
Mechanical					
Dimension	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
Environment					
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)
Certifications					
Safety	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

Fanless cooling system

RS232/422/485

RJ45 for Ethernet

Chassis mount, VESA mount, standalone

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

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



Model Name	15"	15.6" (16:9)	32" (16:9)
	R15IB3S-PTC3	W15IB3S-PTA3	W32IK3S-PTA2
Display			
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
System			
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
Connectors			
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
Power			
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%
Mechanical			
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
Environment			
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)
Certifications			
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

Fanless cooling system

RS232/422/485

RJ45 for Ethernet

Chassis mount, VESA mount, standalone

Front IP65 waterproof and dustproof

Operating temperature 0°C to 50°C

Accessories

Standard

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
Display		
Resolution	1024 x 768	1920 x 1080
Panel Brightness	300 nits	300 nits
Contrast Ratio	700 : 1 (Typ.)	700 : 1 (Typ.)
Viewing Angle	-80~80 (H) ; -80~80 (V)	-85~85 (H) ; -85~85 (V)
Display Color	16.2M	16.2M
Touch	Projected Capacitive	Projected Capacitive
System		
Processor	Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Memory	1GB LPDDR3	1GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	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)
Connectors		
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 (Optional PoE function)	1 x RJ45 10/100/1000 (Optional PoE function)
Speaker	2 x 1 Watt Speaker	2 x 1 Watt Speaker
USB Port	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
SD Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
CANBus	1 x CANBus (DB9)	1 x CANBus (DB9)
Power		
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%
Mechanical		
Dimension	352.5 x 276.7 x 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
Environment		
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)
Certifications		
Safety	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
Display		
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
System		
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)
Connectors		
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
Power		
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%
Mechanical		
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
Environment		
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)
Certifications		
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

Fanless cooling system

64GB M.2 SSD

Power over Ethernet (PoE)

USB 3.0, USB 2.0

RS232/422/485, RJ45 for Ethernet

1W Speaker

Panel mount, VESA mount, standalone

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

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
Display			
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
System			
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
Connectors			
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
User Controls			
LED Light Bar	-	1 x LED Light Bar	Built-in All-Around RGB LED Light Bar
Environment			
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
Power			
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%
Mechanical			
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
Data Capture			
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
Certifications			
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
Display			
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
System			
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
Connectors			
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
User Controls			
LED Light Bar	1 x LED Light Bar	-	-
Environment			
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
Power			
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%
Mechanical			
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
Data Capture			
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)
Certifications			
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
Display			
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
System			
Processor	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)
Memory	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	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
Connectors			
Power	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack	1 x Phoenix type Power Jack
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	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
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
CANBus	1 x CANBus	1 x CANBus	1 x CANBus
LED Light Bar	1 x Built-in RGB LED light bar	-	All-around RGB LED status light bar
Power			
Power Input	9~24V DC	9~24V DC	12V DC
Power Consumption	10W	10 W	12 W
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%
Mechanical			
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)	VESA Mount (75 x 75 mm)	VESA Mount (75 x 75 mm), Panel Mount, Front Side Wall Mount
Cooling System	Fanless design	Fanless design	Fanless design
Environment			
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
Options			
RFID/NFC Reader	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56MHz (Optional)	HF RFID Reader 13.56 MHz (Optional)
Camera	2MP front camera (Optional)	2MP front camera (Optional)	NA
Certifications			
Safety	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
Display			
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 125.6	216.96 x 135.6	304.1 x 228.1
Viewing Angle	-85~85 (H); -85~85 (V)	-85~85 (H); -85~85 (V)	-80~80 (H); -70~70 (V)
Display Color	16.7M	16.7M	16.7M
Touch	Projected Capacitive	Projected Capacitive	Projected Capacitive
System			
Processor	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)
Memory	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)	1GB LPDDR3 (Optional 2GB LPDDR3)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	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
Connectors			
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	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
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
CANBus	1 x CANBus	1 x CANBus	1 x CANBus
LED Light Bar	1 x Built-in RGB LED light bar	-	-
Power			
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%
Mechanical			
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
Environment			
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
Options			
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)
Certifications			
Safety	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
Display			
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
System			
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 4 GB 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
Connectors			
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
Power			
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 25Watt	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%
Mechanical			
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
Environment			
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
Options			
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)	-
Certifications			
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
Display			
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
System			
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
Connectors			
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	-	-
Power			
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%
Mechanical			
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
Environment			
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
Options			
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)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

15"~24" x86 Panel PC

Kaby Lake Series

Custom configuration



Memory



Storage



High Panel
Brightness



AR Glass



Housing



Wide Power



Application



Forklift Operator Terminal

"FLEXIBLE FOR CUSTOMIZATION!"

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
- 7th 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

AC Adapter

Power Cord

Driver CD

x86 Kaby Lake Panel PC

7th Gen. Intel® Core™ i7/i5/i3



		15"	17"	18.5" (16:9)	19"
Model Name	Open Frame	R15IK7T-OFC3	R17IK7T-OFM1	W18IK7T-OFA2	R19IK7T-OFA1
	Panel Mount	R15IK7T-PMC3	R17IK7T-PMM1	W18IK7T-PMA2	R19IK7T-PMA1
	IP65	R15IK7T-IPC3	R17IK7T-IPM1	W18IK7T-IPA2	R19IK7T-IPA1
	Chassis	R15IK7T-CHC3	R17IK7T-CHM1	W18IK7T-CHA2	R19IK7T-CHA1
Display					
Resolution		1024 x 768	1280 x 1024	1366 x 768	1280 x 1024
Panel Brightness		300 nits	350 nits	250 nits	400 nits
Contrast Ratio		2000 : 1 (Typ.)	1000 : 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)	-85~85 (H); -80~80 (V)
Display Color		16.2M	16.2M	16.7M	16.7M
Touch		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)
System					
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)	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	Intel® H170
Memory		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
Ethernet Controller		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
Audio		Realtek HD Audio Codec	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)	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	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	TPM 2.0
OS		Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors					
USB		4 x USB 3.0	4 x USB 3.0	4 x USB 3.0	4 x USB 3.0
COM Port		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)
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 HDMI 1.4	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	1 x DP 1.2
Audio		Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out	Mic-in, Line-out
DVD Optional		Optional	Optional	Optional	Optional
User Controls					
Control Buttons		Clear CMOS	Clear CMOS	Clear CMOS	Clear CMOS
LED Indicators		Power, HDD	Power, HDD	Power, HDD	Power, HDD
Power					
Power Input		12V DC	12V DC	12V DC	12V DC
Power Consumption		58W	93W	88W	85W
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%
Environment					
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)
Certifications					
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 Kaby Lake Panel PC

7th 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
Display				
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
System				
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
Connectors				
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)
User Controls				
Control Buttons		Clear CMOS	Clear CMOS	Clear CMOS
LED Indicators		Power, HDD	Power, HDD	Power, HDD
Power				
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%
Environment				
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)
Certifications				
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

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
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
Display				
Resolution		1024 x 768	1366 x 768	1280 x 1024
Panel Brightness		300 nits	400 nits	350 nits
Contrast Ratio		2000 : 1 (Typ.)	500 : 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	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		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)
Chipset		Intel® QM87	Intel® QM87	Intel® QM87
Memory		1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB	1 x DDR3L SO-DIMM, max.8GB
Ethernet Controller		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
BIOS		AMI BIOS	AMI BIOS	AMI BIOS
Audio		Realtek HD Audio Codec	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	2.5" SSD, 2.5" HDD, mSATA SSD
OS		Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux	Windows 10 IoT Enterprise Linux
Connectors				
Power		Lockable DC In Power Jack	Lockable DC In Power Jack	Lockable DC In Power Jack
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 USB 3.0	4 x USB 3.0	4 x USB 3.0
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
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
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%
Environment				
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)
Certifications				
Safety		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
Display			
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	
System			
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	
Connectors			
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)	
Power			
Power Input	12V DC	12V DC	
Power Adapter	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%	
Environment			
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)	
Certifications			
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

"FAST AND
EFFICIENT
CUSTOMIZATION
SERVICE."

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

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

Open frame, panel mount, chassis, front IP65

Operating temperature 0°C to 50°C

Accessories

Standard

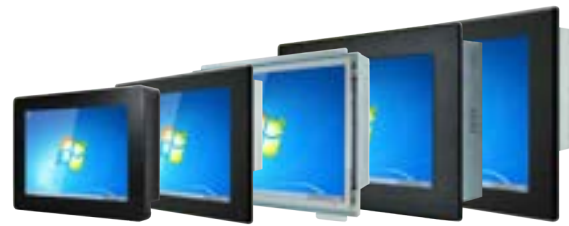
AC Adapter

Power Cord

Driver CD

x86 Fanless Panel PC

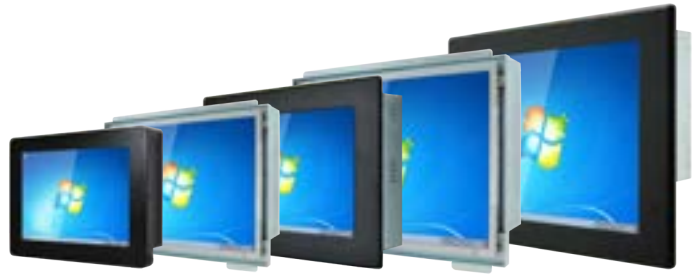
Intel® Celeron® N2930



		6.5"	7" (16:9)	8.4"	10.1" (16:9)	10.4"
Model Name	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
Display						
Resolution		640 x 480	1024 x 600	800 x 600	1024 x 600	1024 x 768
Panel Brightness		700 nits	320 nits	600 nits	450 nits	350 nits
Contrast Ratio		600 : 1 (Typ.)	500: 1 (Typ.)	600: 1 (Typ.)	800: 1 (Typ.)	1000:1 (Typ.)
Viewing Angle		-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)
Display Color		16.2M	16.7M	16.2M	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
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		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
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI 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	Realtek HD Audio Codec
Storage		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
OS		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
Connectors						
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	2 x RJ45 10/100/1000
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)	1 x 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	1 x USB 3.0, 1 x USB 2.0	1 x USB 3.0, 1 x USB 2.0
HDMI		1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Power						
Power Input		12V DC	12V DC	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%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		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)
Certifications						
Safety		CE, FCC	CE, FCC	CE, FCC	CE, FCC	CE, FCC

x86 Fanless Panel PC

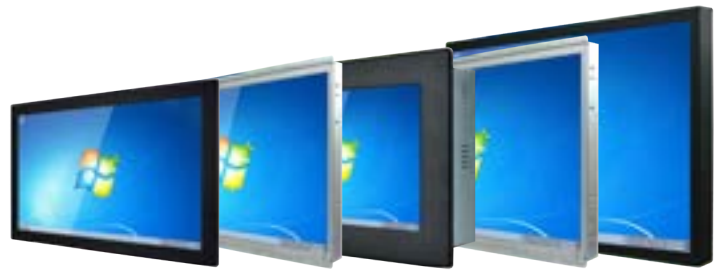
Intel® Celeron® N2930



		10.4"	12.1"	15"	15.6" (16:9)	17"
Model Name	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
Display						
Resolution		800 x 600	1024 x 768	1024 x 768	1366 x 768	1280 x 1024
Panel Brightness		600 nits	500 nits	300 nits	400 nits	350 nits
Contrast Ratio		400 : 1 (Typ.)	700 : 1 (Typ.)	2000 : 1 (Typ.)	500 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle		-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)
Display Color		16.2M	16.2M	16.2M	16.7M	16.2M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
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		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
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI 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	Realtek HD Audio Codec
Storage		2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
OS		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
Connectors						
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	2 x RJ45 10/100/1000
Serial Interface		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)
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, 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
HDMI		1 x HDMI	1 x HDMI	-	-	-
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
Power						
Power Input		12V DC	12V DC	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%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		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)
Certifications						
Safety		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)
Model Name	Open Frame	W181B7T-OFA2	R191B7T-OFM1	R191B7T-OFA1	W221B7T-OFA3	W241B7T-OFA2
	Panel Mount	W181B7T-PMA2	R191B7T-PM1	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
Display						
Resolution		1366 x 768	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness		250 nits	250 nits	400 nits	250 nits	250 nits
Contrast Ratio		1000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-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)
Display Color		16.7M	16.7M	16.7M	16.7M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System						
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		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
Ethernet Controller		Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE	Intel® I210-AT GbE
BIOS		AMI 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	Realtek HD Audio Codec
Storage		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
OS		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
Connectors						
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	2 x RJ45 10/100/1000
Serial Interface		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)
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	1 x USB 3.0, 3 x USB 2.0	1 x USB 3.0, 3 x USB 2.0
VGA		1 x VGA	1 x 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	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	2 x PS/2	2 x PS/2
Power						
Power Input		12V DC	12V DC	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%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Environment						
Operating Temp.		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 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)
Certifications						
Safety		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 a 12" open frame panel PC with touchscreen now serves as a payment terminal.

“**DURABLE AND RELIABLE.**”

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

Thermal solution with fan

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

Lockable power connector

Open frame, panel mount, chassis, front IP65

operating temperature 0°C to 50°C

Accessories

Standard

AC Adapter

Power Cord

Driver CD

x86 Ivy Bridge Panel PC

3rd 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
Display				
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
System				
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
Connectors				
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
Power				
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%
Environment				
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)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

x86 Ivy Bridge Panel PC

3rd Gen. Intel® Core™ i5



		15"	17"	19"
Model Name	Open Frame	R15IV7T-OFC3	R17IV7T-OFM1	R19IV7T-OFM1
	Panel Mount	R15IV7T-PMC3	R17IV7T-PMM1	R19IV7T-PMM1
	IP65	R15IV7T-IPC3	R17IV7T-IPM1	R19IV7T-IPM1
	Chassis	R15IV7T-CHC3	R17IV7T-CHM1	R19IV7T-CHM1
Display				
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		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
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 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 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
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
Connectors				
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 USB3.0	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
VR Knob		1 x VR knob	1 x VR knob	1 x VR knob
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
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%
Environment				
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)
Certifications				
Safety		CE, FCC	CE, FCC	CE, FCC

x86 Ivy Bridge Panel PC

3rd Gen. Intel® Core™ i5



		19"	21.5" (16:9)	24" (16:9)
Model Name	Open Frame	R19IV7T-OFA1	W22IV7T-OFA3	W24IV7T-OFA2
	Panel Mount	R19IV7T-PMA1	W22IV7T-PMA3	
	IP65	R19IV7T-IPA1	W22IV7T-IPA3	W24IV7T-IPA2
	Chassis	R19IV7T-CHA1	W22IV7T-CHA3	
Display				
Resolution		1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness		400 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)
Display Color		16.7M	16.7M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
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 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 1600MHz SO-DIMM, max. 8GB	1 x DDR3L 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
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
Connectors				
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 USB3.0	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
VR Knob		1 x VR knob	1 x VR knob	1 x VR knob
DVD		Yes (Optional)	Yes (Optional)	Yes (Optional)
Power				
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%
Environment				
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)
Certifications				
Safety		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

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
Display				
Resolution		640 x 480	1024 x 600	1024 x 600
Panel Brightness		900 nits	250 nits	200 nits
Contrast Ratio		300 : 1 (Typ.)	700 : 1 (Typ.)	500 : 1 (Typ.)
Active Area		115.2 x 86.4	153.6 x 90.0	220.4 x 129.1
Viewing Angle		-70~70 (H); -40~60 (V)	-75~75 (H); -75~70 (V)	-70~70 (H); -50~60 (V)
Display Color		262K	262K	262K
Touch		Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System				
Processor		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)
Storage		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
Memory		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
OS		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)
Connectors				
Serial Interface		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
USB		1 x USB 2.0	1 x USB 2.0	1 x USB 2.0
SD Card Slot		1 x Micro SD Card Slot	1 x Micro SD Card Slot	1 x Micro SD Card Slot
HDMI		1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Micro USB		1 x USB OTG	1 x USB OTG	1 x USB OTG
Power		Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin Terminal Block	Phoenix type 1 x 2pin 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
Power				
Power Input		12V DC	12V DC	12V DC
Power Consumption		15W	15W	16W
Power over Ethernet (PoE)		PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W	PoE require IEEE 802.3at 25W
Mechanical				
Dimension		160 x 129.6 x 54 mm	218 x 164.6 x 60.8 mm	286 x 182 x 49.5 mm
Cooling System		Fanless	Fanless	Fanless
Environment				
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	Front IP65	Front IP65
Certifications				
Safety		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
Display			
Resolution		1024 x 768	1280 x 1024
Panel Brightness		250 nits	250 nits
Contrast Ratio		700 : 1 (Typ.)	1000 : 1 (Typ.)
Active Area		304.1 x 228.1	376.3 x 301.0
Viewing Angle		-80~80 (H); -70~70 (V)	-85~85 (H); -80~80 (V)
Display Color		1 6.2M	16.7M
Touch		Resistive touchscreen	Resistive touchscreen
System			
Processor		Arm Cortex-A9 (1 GHz to 1.6 GHz)	Arm Cortex-A9 (1 GHz to 1.6 GHz)
Storage		Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
Memory		1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
OS		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)
Connectors			
Serial Interface		1 x RS232 (Optional 422/485)	1 x RS232 (Optional 422/485)
USB		1 x USB 2.0	1 x USB 2.0
SD Card Slot		1 x Micro SD Card Slot	1 x Micro SD Card Slot
HDMI		1 x Micro HDMI	1 x Micro HDMI
Micro USB		1 x USB OTG	1 x USB OTG
Power		1 x 2pin Terminal Block	1 x 2pin Terminal Block
Ethernet		1 x RJ45 10/100/1000	1 x RJ45 10/100/1000
Power			
Power Input		12V DC	12V DC
Power Consumption		18W	20W
Power over Ethernet (PoE)		12V DC PoE require IEEE 802.3at 25W	12V DC PoE require IEEE 802.3at 25W
Power Adapter AC		AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Mechanical			
Dimension		400 x 320 x 59 mm	474 x 383.9 x 71.4 mm
Cooling System		Fanless	Fanless
Environment			
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)
IP Rating		Front IP65	Front IP65
Certifications			
Safety		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

3rd 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
Display					
Resolution		1024 x 768	1280 x 1024	1280 x 1024	1920 x 1080
Panel Brightness		300 nits	350 nits	250 nits	250 nits
Contrast Ratio		2000 : 1 (Typ.)	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle		-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
System					
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)	Intel® Core™ i5-3230M (3M Cache, up to 3.20 GHz)
Chipset		Intel® HM76	Intel® HM76	Intel® HM76	Intel® HM76
Memory		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
Ethernet Controller		Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
Storage		2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD	2.5" HDD or mSATA SSD
Audio		Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
BIOS		AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
OS		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
Connectors					
Audio		Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in	Line-in, Line-out, Mic-in
Serial		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)
VGA		1 x VGA	1 x VGA	1 x VGA	1 x VGA
USB		4 x USB3.0	4 x USB3.0	4 x USB3.0	4 x USB3.0
LAN		2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Keyboard/Mouse		2 x PS/2	2 x PS/2	2 x PS/2	2 x PS/2
Environment					
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)
Certifications					
Safety		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

3rd Gen. Intel® Core™ i5



Model Name	15"	17"	19"
	R15IV7T-RKC3	R17IV7T-RKM1	R19IV7T-RKM1
Display			
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	Resistive touchscreen	Resistive touchscreen	Resistive touchscreen
System			
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 GbE	Dual Broadcom BCM57780 GbE	Dual Broadcom BCM57780 GbE
BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Audio	Realtek HD Audio Codec	Realtek HD Audio Codec	Realtek HD Audio Codec
Storage	2.5" HDD/mSATA	2.5" HDD/mSATA	2.5" HDD/mSATA
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
Connectors			
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 USB 3.0	4 x USB 3.0	4 x USB 3.0
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
Power			
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%
Mechanical			
Dimension	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
Environment			
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)
Certifications			
Safety	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
Display			
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)
System			
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)
Connectors			
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
Power			
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%
Mechanical			
Dimension	482 x 310 x 75.8 mm	482.6 x 399 x 92 mm	482 x 399 x 90 mm
Environment			
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)
Certifications			
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."

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
- 7th Gen. Intel® Core™ i7/i5/i3
- Intel® Core™ i5-7200U
- Intel® Celeron® N2930
- Windows 10/8/7

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
Display			
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
System			
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
Connectors			
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
Audio			
Speaker	1 x 2 Watt Speaker	1 x 2 Watt Speaker	-
Mechanical			
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)
Power			
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications			
Safety	CE, FCC	CE, FCC	CE, FCC

x86 G-WIN GC Series Panel PC

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



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
Display				
Resolution	1920 x 1080	1920 x 1080	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits	250 nits
Contrast Ratio	3000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-89~89 (H);-89~89 (V)	-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	16.7M
System				
Processor	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)
Memory	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)
Storage	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)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors				
USB Port	2 x USB3.0	4 x USB 3.0	2 x USB3.0	4 x USB 3.0
Ethernet	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	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)	1 x RS232 1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4	1 x HDMI 1.4
Mechanical				
Dimensions	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
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	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
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)
Power				
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications				
Safety	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
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	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
Viewing Angle	-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)
Display Color	16.2M	16.7M	16.2M	16.2M	16.2M
System					
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	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
Storage	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA SSD	64GB mSATA 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	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
Connectors					
USB Port	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
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	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)	1 x RS232/422/485 (Default RS232)	1 x RS232/422/485 (Default RS232)
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Speaker	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
Mechanical					
Dimensions	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
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	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
Power					
Power Input	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)
Certifications					
Safety	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
Display				
Resolution	1280 x 1024	1280 x 1024	1920 x 1080	1920 x 1080
Panel Brightness	250 nits	250 nits	250 nits	250 nits
Contrast Ratio	1000 : 1 (Typ.)	1000 : 1 (Typ.)	3000 : 1 (Typ.)	3000 : 1 (Typ.)
Viewing Angle	-85~85 (H);-80~80 (V)	-85~85 (H);-80~80 (V)	-89~89 (H);-89~89 (V)	-89~89 (H);-89~89 (V)
Display Color	16.7M	16.7M	16.7M	16.7M
System				
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	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB	4GB DDR3L-1600 GHz max 8GB	SO-DIMM DDR3L 1600, max. 8GB
Storage	64GB M.2 SSD	mSATA SSD 64GB (Default)	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	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
Connectors				
USB Port	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
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
COM Port	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)
HDMI	1 x HDMI (HDMI 1.4)	-	1 x HDMI (HDMI 1.4)	-
VGA	-	1 x VGA (female)	-	1 x VGA (female)
Audio	-	Line-out, Line-in, Mic-in	-	Line-out, Line-in, Mic-in
Mechanical				
Dimensions	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
Cooling System	Fanless design	Fanless design	Fanless design	Fanless design
Mounting	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)
Power				
Power Input	12V DC	12V DC	12V DC	12V DC
Certifications				
Safety	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
Display		
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
System		
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
Connectors		
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)
Mechanical		
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)
Power		
Power Input	12V DC	12V DC
Certifications		
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

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

Fanless cooling system

Ultra low power consumption

Front IP65 waterproof and dustproof

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
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	153.6x 90.0	222.72x 125.28	210.4 x 157.8	245.76 x 184.32	210.4 x 157.8
Viewing Angle	-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)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
System					
Processor	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)
Memory	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB	1GB LPDDR3 Optional 2GB
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 6.0	Android 6.0	Android 6.0	Android 6.0	Android 6.0
Connectors					
USB Port	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)
Ethernet	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
COM Port	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)
SD 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	1 x Micro SD Card Slot
Speaker	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
Mechanical					
Dimensions	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
Cooling System	Fanless design	Fanless design	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 (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Power					
Power Input	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)
Certifications					
Safety	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
Display				
Resolution	1024 x 600	1024 x 600	1024 x 600	1024 x 768
Panel Brightness	320 nits	1000 nits	450 nits	300 nits
Contrast Ratio	500:1 (Typ.)	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)
Viewing Angle	-75~75 (H); -75~70 (V)	-75~75 (H); -75~70 (V)	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.7M	16.7M	16.2M
System				
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)	Arm Cortex-A72 (up to 2.0 GHz) + Arm Cortex-A53 (up to 1.5 GHz)
Memory	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3	2GB LPDDR3
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)	Android 7.1 (Default)
Connectors				
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	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	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)	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	1 x Micro SD Card Slot	1 x Micro SD Card Slot
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI	1 x Micro HDMI
Mechanical				
Dimensions	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
Cooling System	Fanless design	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 (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Power				
Power Input	9~24V DC	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications				
Safety	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
Display		
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
System		
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)
Connectors		
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
Mechanical		
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
Power		
Power Input	12V DC (Optional 9~36V DC)	12V DC (Optional 9~36V DC)
Certifications		
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."

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

M12 waterproof connectors

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

Mounting solution for vehicle applications

Power ignition control

Full IP65 waterproof and dust proof

Wide operating temperature

Accessories

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
Display				
Resolution	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (optional 1000 nits)	250 nits (optional 1000 nits)
Contrast Ratio	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	222.72x 125.28	210.4 x 157.8	245.16 x 184.32	304.1 x 228.1
Viewing Angle	-75~80 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-80~80 (H); -70~70 (V)	-88~88 (H); -88~88 (V)
Display Color	16.7M	16.2M	16.2M	16.2M
System				
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 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)	2GB DDR3L 1600 SODIMM (Max. 8GB)
Storage	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	64GB mSATA SSD max. 512GB	mSATA SSD 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	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
Connectors				
USB	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)
Ethernet	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)
COM	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)
Power	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)	1 x Power Jack (M12 Type)
Audio				
Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker	1 x 1 Watt Speaker
Mechanical				
Dimensions	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
Cooling System	Fanless design	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 (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount
Operating Temp.	-15°C to 55°C	-15°C to 55°C	-15°C to 55°C	-15°C to 55°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)
Power				
Power Input	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)	9~36V DC (M12 type)
Certifications				
Safety	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

M12 waterproof connectors

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

Mounting solution for vehicle applications

Power ignition control

Full IP65 waterproof and dust proof

Wide operating temperature

Accessories

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
Display					
Resolution	1024 x 600	1024 x 600	1024 x 768	1024 x 768	1024 x 768
Panel Brightness	1000 nits	450 nits (Optional 800 nits)	350 nits (Optional 1000 nits)	500 nits (Optional 1000 nits)	250 nits (Optional 1000 nits)
Contrast Ratio	700:1 (Typ.)	800:1 (Typ.)	1000:1 (Typ.)	700:1 (Typ.)	2000:1 (Typ.)
Active Area	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
Viewing Angle	-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)
Display Color	16.7M	16.7M	16.2M	16.2M	16.2M
System					
Processor	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)
Memory	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)	1GB LPDDR3 (Optional 2GB)
Storage	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)	Onboard 16GB eMMC (Default)
OS	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)
Connectors					
USB	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)
Ethernet	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)
COM	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)
SD 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	1 x Micro SD Card Slot
Power	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)
Audio					
Speaker	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
Mechanical					
Dimensions	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
Cooling System	Fanless design	Fanless design	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 (75 x 75 mm), Panel Mount	VESA Mount (75 x 75 mm), Panel Mount	VESA Mount (100 x 100 mm), Panel Mount
Operating Temp	-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
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)	10% to 95% (Non-condensing, RH)
Power					
Power Input	9~24V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)	12V DC (M12 type)
Certifications					
Safety	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."

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

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

Compliance with EN50155

Mounting solution for vehicle applications

Power ignition control

Wide operating temperature

Accessories

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)
Display		
Resolution	1024 x 768	1024 x 768
Brightness	350 nits	300 nits (Optional 1000 nits High Brightness)
Contrast Ratio	1000 :1 (Typ.)	2000:1 (Typ.)
Active Area	201.4 x 157.8	304.128 x 228.096
Viewing Angle	-88~88 (H); -88~88 (V)	-88~88 (H); -88~88 (V)
Display Color	16.2M	16.2M
System		
Processor	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
Memory	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)	1 x DDR4 2133 MHz SO-DIMM (Default 4GB, max. 16GB)
Storage	M.2 SSD (Default 64GB, max.512GB)	M.2 SSD (Default 64GB, max.512GB)
OS	Windows 10 IoT Enterprise	Windows 10 IoT Enterprise
Connectors		
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	2 x USB 3.0	2 x USB 3.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	1 x DC-in Jack (Phoenix type)	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	WLAN antenna SMA in top (Optional)	WLAN antenna SMA in top (Optional)
Power		
Power Input	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
Certifications		
Safety	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
Display				
Resolution	800 x 600	800 x 600	640 x 480	1024 x 768
Brightness	600 nits	600 nits	400 nits	350 nits
Contrast Ratio	600:1 (Typ.)	400:1 (Typ.)	700:1 (Typ.)	1000:1 (Typ.)
Active Area	170.4 x 127.8	211.2 x 158.4	211.2 x 158.4	201.4 x 157.8
Viewing Angle	-75~75 (H); -70~60 (V)	-70~70 (H); -70~60 (V)	-80~80 (H); -60~80 (V)	-88~88 (H); -88~88 (V)
Display Color	262K	16.2M	16.2M	16.2M
System				
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)
BIOS	AMI BIOS	AMI BIOS	AMI BIOS	AMI BIOS
Memory	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
Ethernet	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN	Intel® I210-AT GbE LAN
Storage	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB	mSATA SSD default 64G max. 512GB
Expansion Slot	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)
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
Connectors				
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)	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	1 x USB 3.0, 1 x USB 2.0
LAN	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000	2 x RJ45 10/100/1000
Power	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)
HDMI	1 x HDMI	1 x HDMI	1 x HDMI	1 x HDMI
Antenna	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)
Power				
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	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%	AC 110~240 V, Universal, ±10%	AC 110~240 V, Universal, ±10%
Certifications				
Safety	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)
Display		
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
System		
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
Connectors		
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)
Power		
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%
Certifications		
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."

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

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

Magnesium alloy housing with anti-corrosion

Mounting solution for vehicle applications

Power ignition control

IP67 waterproof and dustproof

Wide operating temperature

Accessories

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)
Display				
Resolution	1024 x 768	1280 x 1024	1024 x 768	1280 x 1024
Panel Brightness	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)
Contrast Ratio	2000:1 (Typ.)	1000 : 1 (Typ.)	2000:1 (Typ.)	1000 : 1 (Typ.)
Viewing Angle	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)	-88~88 (H); -88~88 (V)	-85~85 (H); -80~80 (V)
Display Color	16.2M	16.7M	16.2M	16.7M
Touch	5 Wire Resistive touchscreen	PCAP touchscreen	5 Wire Resistive touchscreen	PCAP touchscreen
System				
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)	Intel® Core™ i5-7200U (3M Cache, up to 3.10 GHz)
Memory	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)
BIOS	Insyde BIOS	Insyde BIOS	AMI BIOS	AMI BIOS
Storage	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)
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
Connectors				
USB	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
LAN	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)
Power	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)
Serial Interface	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)	1 x RS232 (Waterproof, IP67 grade)	1x RS232 (Waterproof, IP67 grade)
Mechanical				
Dimensions	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
Operating Temp.	-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)
Humidity	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)	10% to 95% (Non-condensing, RH)	5% to 95% (Non-condensing, RH)
Power				
Power Input	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
AC 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%
Certifications				
Safety	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