

23+
Years in Business

30+
Countries Served

5000+
Happy Customers



**One-stop
IPC, Panel PC and HMI
Design and Manufacturing**

NODKA

V 2024 A1.0 Industrial Computer Product Catalog



**KEEP IMPROVING AND MAKING
BETTER PANEL PC**

Our Facilities and Capabilities

- In house SMTs, precision machinery and system assembly parts
- 520+ employees and near \$100M annual revenue
- Fast turnaround for small batch customization HMIs
- Local service and support for the US and European markets
- Strong R&D team for both hardware design and software supports
- Readily available inventory for small qty standard product orders
- Short OEM/ODm design cycles: 30~40 days for a new design

NODKA International

NO.5, Shenwang Rd, Minhang Dist, Shanghai, China
Email: vikki@nodka.com
Mobile: +86 136 7156 0856

NODKA Europe

Baltesakker 17, 5625 TC in Eindhoven, NL
Email: wuyong@nodka.com
Mobile: +31(0) 6 2029 2256

NODKA USA

21015 Commerce Pointe Drive Walnut, CA 91789. USA
Email: bin.lin@nodka.us
Tel: 909-594-7600

- COMLAC INSIDE
- INDUSTRIAL OPERATION PANEL
- INDUSTRIAL PANEL PC
- INDUSTRIAL MONITOR
- EMBEDDED INDUSTRIAL COMPUTER
- CONTROL CABINET AUTOMATION PC



NODKA GLOBAL LOCATION

NODKA local sales and service team, offer the optimized solution and service support to our customers in different territory.

NODKA is a leading Chinese manufacturer of Industrial Embedded Systems and Fanless Panel PC products with more than 23 years of experience for automation computing solution.

We offer product and service to over 5,000 clients in China and more than 30 overseas countries, and offer the applications cover Industrial Automation, Power Automation, Communication and Transportation, etc. Currently there are 17 branch offices in China and 2 branch office in the Netherlands and America, more than 25 countries around the world with qualified partners and distributors.

NODKA has own R&D team, precision sheet machinery factory, SMT plant and system assembly plant in Suzhou city, besides, we have lab for initial EMC, Wide Temperature, Vibration, ESD, Impulse and Surge testing.

COMLAC Module Computer



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Automation PC
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YOUR FUTURE AUTOMATION COMPUTING SOLUTIONS

NODKA offers more than 150 industrial computer related products and widely used in Industrial Automation, CNC machinery, Data Acquisition, Process Control, Motion Control, Machine Vision and so on.

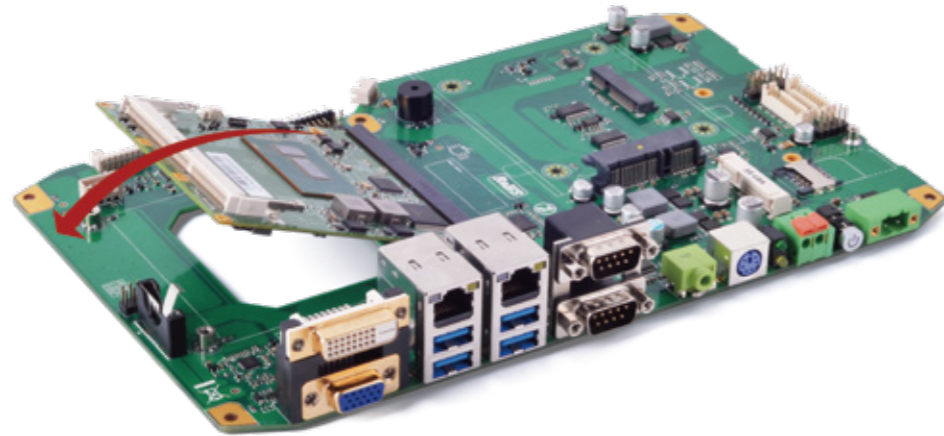
We endeavor to Industrial product design, production, maintain and service support, and not be involved in the competition with our customers.

Nodka offers X86 and ARM high-quality based products and adhering to provide industrial-grade and military-grade products which more than 7+ years life cycle, and try to more than 10+ years. We provide free lifecycle maintenance to customers, including OS upgrades, bug check, product tracking, technical consulting and support services. With the change of market requirement and continuously technical innovation, Nodka will continuously improve capability on troubleshooting and problem solving, to grow with our partner together.



COMLAC

Computer on Module like Automobile Chassis



COMLAC is a multi-functional small form factor computer core module, developed by NODKA and followed X86 modular bus standard. Based on years of experience and research with ETX, COM Express, Qseven, SMARC modular bus and combined with latest technology and development with X86, so new bus standard is proposed and designed for the needs of low power consumption and smaller dimension, as well as high performance. COMLAC keeps not only the high capability of COM Express, but also the advantage of Qseven and SMARC for smaller size, lower cost and failure rate, which gives COMLAC a stronger vitality and competitiveness.

The modular concept of Carrier Board:

- The designer of carrier board could decide the physical structure of carrier board and equipment, bring no restrict to form factor (such as ATX, Mini-ITX, 3.5 inch or 5.25 inch).
- Through the compatibility design, the same carrier board can be compatible with different CPU core modules, which brings advantage of flexibility for platform exchange and upgrade, as well as the better cost control.
- Modularize the most complex part of motherboard, help reduce R&D cost and accelerate time to market process.
- Can reduce current and future design risks.
- Fast implementation of own hardware circuit design to Carrier board, help reduce the connection cables and add-on cards around device, improve product integration and reliability.
- Enable customer to import new technology quickly, reserve possibility of the further development.

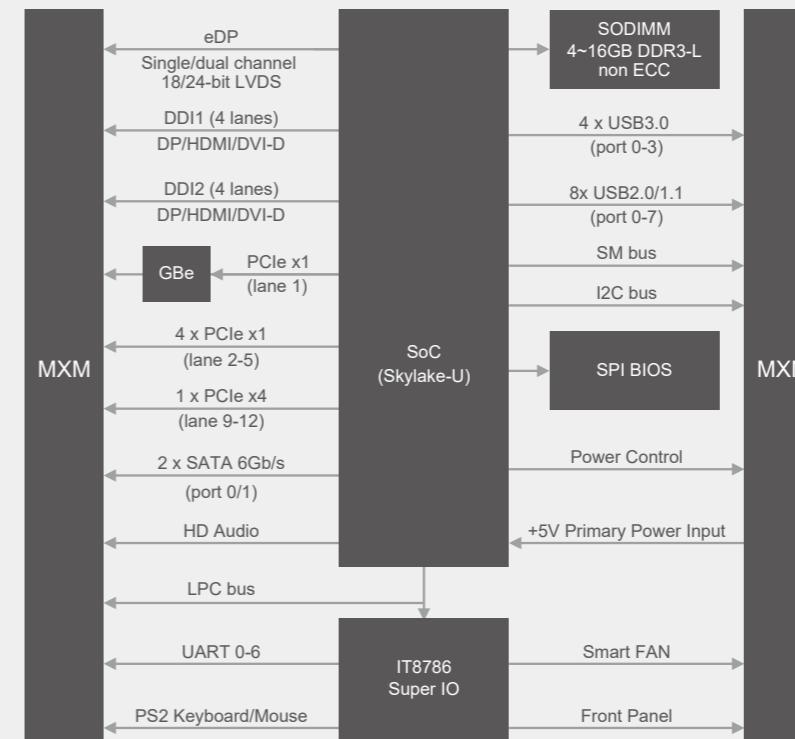


What is COMLAC ?

COMLAC CPU modules choose low-power x86 SOC, and is designed with low power range between 10W ~ 30W and small size of 82 * 95 mm. COMLAC CPU modules can offer the powerful computing performance based on Intel's latest Core -I platform, are suitable for applications that require low power but high performance, so that it is typically used in portable devices and fixed embedded systems. CPU core and supported circuits (including memory, BIOS, power timing control, CPU power supply, Ethernet, etc.) are all integrated on the CPU module.

The COMLAC CPU module will be integrated with the carrier board, which is with specific functions required by application, such as VGA / DVI / HDMI, LCD interface, audio codec, touch controller, wireless, interface protection, and customer designed circuits, etc. Such modular design can provide a lot of advantage to customers, such as flexibility of product upgrade, fast time to market, diversification, lower cost and power consumption as well as smaller physical size.

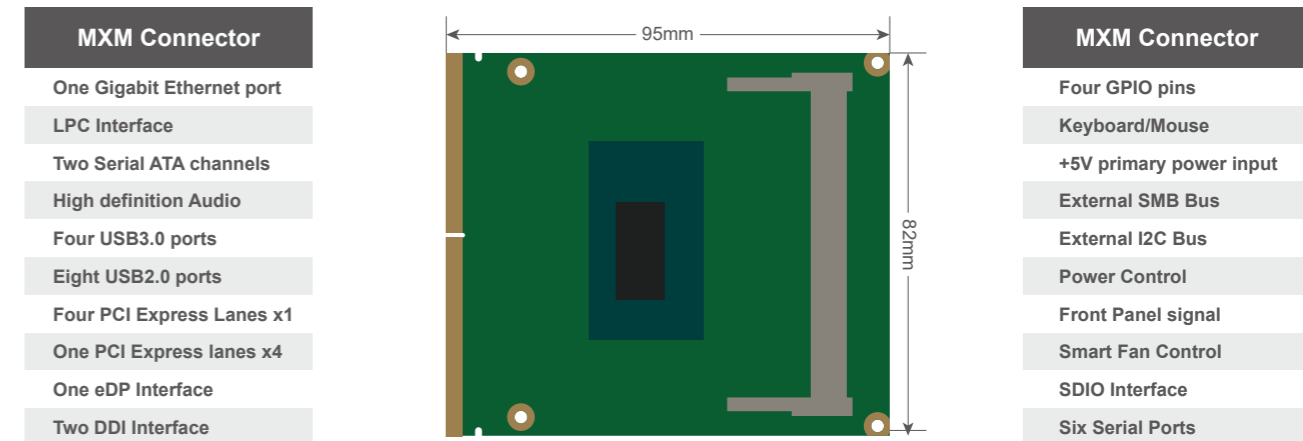
COMLAC Diagram Functional:



COMLAC development services and technical support

- COMLAC specification consulting, introduction and training.
- Product selection assistance, accessories selection assistance X86 architecture analysis
- Carrier board design guidance information
- Schematic reference
- Technical design assistance
- Schematic design and audit assistance
- PCB design and audit assistance
- Thermal design and audit assistance
- PCBA process assistance
- BIOS function customization (boot screen, default settings, etc.)
- Faulty analysis, positioning and troubleshooting

COMLAC Type3 Revision1.0



About COMLAC Connector

The COMLAC standard uses a high-speed MXM-III connector. The MXM connector is known for its high-speed signal transmission, and is typically used as a transmission interface for PCI Express image acquisition cards in notebooks. It is also widely applied for military and industrial computer core module (such as Qseven and SMARC) because of its advantage of compact physical structure, high-speed transmission, impact resistance, and vibration resistance. NODKA CPU core module is with same connector and with dimension of 82 mm * 95 mm, which is based on latest Intel Core-I Platform. The MXM-III connector selected by NODKA COMLAC standard provides 314 electrical contacts, and supports third-generation PCI-Express transfer rate, and wide temperature range of -55°C to + 85°C.

COMLAC Core Modules



Model No.	NK-L318-N305/N97	NK-L317-J6412	
Processor	CPU	Intel® i3-N305/N97 Alder lake N processor, TDP 15W	Intel® Celeron® J6412 processor, Dual-core, TDP 10W
	Chipset	Intel® SoC integrated	Intel® SoC integrated
	BIOS	AMI 256Mb UEFI BIOS	AMI 128Mb UEFI BIOS
Memory	Technology	Signal Channel(Non-ECC) DDR5-4800MHz, up to 16GB	Single Channel(Non-ECC) DDR4-3200MHz, up to 32GB
	Slot	1×DDR5 262-pin SO-DIMM slot	1×DDR4 260-pin SO-DIMM slot
Graphics	Controller	Intel® UHD Graphics integrated	Intel® HD Graphics integrated
Expansion Signals	Display	2×DDI, 1×eDP	2×DDI, 1×eDP
	Ethernet	Intel® i210AT controller	Intel® i210AT controller
	Serial Port	2×Uart (9 line), 4×Uart (3 line)	2×Uart (9 line), 4×Uart (3 line)
	USB	2×USB3.0, 8×USB2.0	2×USB3.0, 8×USB2.0
	Audio	1×Intel HDA Audio codec	1×Intel HDA Audio codec
	GPIO	1×4bit GPIO	1×4bit GPIO
	Fan	1×Smart FAN	1×Smart FAN
	PCIe	4 port 4 lanes(1 X2, 2 X1)	5 port 5lanes (1 X2, 3 X1)
	SATA	2×SATA 3.0	2×SATA 3.0
	Other	1×KB/MS, 1×I ² C, 1×Smbus, 1×Buzzer, 1×eSPI	1×eSPI, 1×I ² C, 1×SMBus, 1×Buzzer, 1×KB/MS
Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds	
Power	Power input	5V	
O.S Support	MS Windows	Windows 10/11	
	Linux	Linux	
Mechanism	Dimensions	(L)95mm×(W)82mm	
	Gross Weight	0.04kg	
Environmental	Temperature	Operating: 0°C ~60°C with SSD, Storage: -40°C ~85°C	
	Humidity	5~95% (Non-condensing)	
	Vibration	5~500Hz, 3Grms operating	



Model No.	NK-L315-3855U/6200U/7600U	NK-L312-J1900	
Processor	CPU	Intel® 6/7th Gen.U Celeron Core processor, TDP 15W	Intel® Celeron® J1900 processor, TDP 10W
	Chipset	Intel® SoC integrated	Intel® SoC integrated
	BIOS	AMI 128Mb UEFI BIOS	AMI 64Mb UEFI BIOS
Memory	Technology	Single Channel(Non-ECC) DDR3L-1600MHz, up to 8GB	Single Channel(Non-ECC) DDR3L-1333MHz, up to 8GB
	Slot	1×DDR3L 240-pin SO-DIMM slot	1×DDR3L 240-pin SO-DIMM slot
Graphics	Controller	Intel® UHD Graphics integrated	Intel® HD Graphics integrated
Expansion Signals	Display	2×DDI, 1×eDP	2×DDI, 1×VGA FPC Connector
	Ethernet	Intel® i210AT controller	Intel® i210AT controller
	Serial Port	2×Uart (9 line), 4×Uart (3 line)	2×Uart (9 line), 4×Uart (3 line)
	USB	4×USB3.0, 8×USB2.0	1×USB3.0, 8×USB2.0
	Audio	1×Intel HDA Audio codec	1×Intel HDA Audio codec
	GPIO	1×4bit GPIO	1×4bit GPIO
	Fan	1×Smart FAN	1×Smart FAN
	PCIe	5 port 8 lanes(1 X4, 1 X2, 2 X1)	3 port 3 lanes (3 X1)
	SATA	2×SATA 3.0	2×SATA 2.0
	Other	1×I ² C, 1×Smbus, 1×LPC, 1×Buzzer, 1×KB/MS	1×I ² C, 1×SMBus, 1×LPC, 1×Buzzer, 1×KB/MS
Watchdog Timer	Output&Interval	System reset, programmable from 1~255 seconds	
Power	Power input	5V	
O.S Support	MS Windows	Windows 7(Only support with Intel 6th Gen. CPU), Windows 10	Windows 7/8/10
	Linux	Linux	
Mechanism	Dimensions	(L)95mm×(W)82mm	
	Gross Weight	0.04kg	
Environmental	Temperature	Operating: 0°C ~60°C with SSD, Storage: -40°C ~85°C	
	Humidity	5~95% (Non-condensing)	
	Vibration	5~500Hz, 3Grms operating	

Industrial Operation Panel with Swing ARM

NODKA Industrial Operation Panel combines the swing arm control box with industrial computer system and display, and in more compact, highly-integrated and stylish design. Widely used in all kinds of machine tools, automobile manufacturing, petrochemical, food, pharmaceutical machinery and other automatic equipment, testing equipment and human-computer interaction equipment.

Industrial Operation Panels are available either with a touch screen monitor (IDP59 series) or with additional PC system (ICP68 series), with projected capacitive touch screens are available in sizes ranging from 15" to 21.5" and offer full IP65 protection. Buttons, selector switches, key switches and an integrated E-stop button provide exceptional user comfort.

ICP68 series support NODKA COMLAC INSIDE design, option a variety of CPU options, just like J1900, 4205U and i5-7200U. Interfaces option 2 Intel gigabit RJ45 ports, 4 USB and 2 RS232/485 ports.



To adapt optimally to the requests from different application, button panel can be individually customized. The list of possible adaptations endless, including virtually any arrangement of standard keys, illuminated ring keys and push buttons in various colors, a custom keypad module is also available.

NODKA Industrial Operation Panels support both pendant and pedestal mounting, the panels are designed to allow easy access to all buttons and cables.

ICP69 SERIES



Model No.	ICP6915	ICP6919	ICP69185	ICP69215	
Processor	CPU Intel® Celeron® J6412/J1900/Core™ i5 7200U				
	Main Frequency Quad Core 2.0GHz/Quad core 2.0GHz/Dual Core 2.5GHz				
	L3 Cache 1.5MB/2MB/3MB				
	Memory 1×DDR4-2400MHz, max 16GB/1×DDR3L-1333MHz, max 8GB/1×DDR3L-1600MHz, max 8GB				
	Storage interface 1×2.5" SATA HDD + 1×mSATA				
I/O	Ethernet 2×Intel 1000Mbps RJ-45 Ethernet interface				
	Audio Optional				
	USB 4×USB3.0/2.0/1.1				
	Serial port 2×RS232 / RS485 with surge protection, RS485 support automatic flow control				
	Expansion slot 1×Mini-PCIe slot, extensible 3G, WIFI wireless card				
Physical	Weight	8.3KG	11.30KG	10.24KG	14.30KG
	Pensile Direction	Optional Up or Down			
	Fixed Stand of Cantilever	Suitable for full series			
	Handle of Operation Panel	Standard			
	Operation Button	Nodka Standard: USB, Rotatable switch, Push button (Green , Red),Key switch, Emergency stop switch			
	Dimension (W×H×D)	507mm×386mm×139.5mm	573mm×437mm×139.5mm	593mm×372mm×139.5mm	664mm×411mm×139.5mm
OS	OS Windows 7, Windows 8, Windows 10, Linux				
Power	DC input	DC 12~24V support reverse polarity protection, overvoltage protection, overcurrent protection			
	Power Dissipation (Max)	Depend on the processor	Depend on the processor	Depend on the processor	Depend on the processor
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	18.5" HD TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1366×768	1920×1080
	Colors	16.7MB	16.7MB	16.7MB	16.7MB
	Active Area (W×H)	304.13mm×228.10mm	376.32mm×301.06mm	409.8mm×230.4mm	476.64mm×268.11mm
	Backlight	LED	LED	LED	LED
	MTBF (hour)	30000hrs	30000hrs	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248	0.248×0.248
	Luminance	420cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	800:1	1000:1	1000:1	3000:1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Capacitive touch screen			
	Transmittance	> 87%			
	Response Time (touch pen)	< 5ms			
	Surface Hardness	Mohs' Hardness 7H			
	Click Life	250g / 100,000,000 times	250g / 100,000,000 times	250g / 100,000,000 times	250g / 100,000,000 times
	Multi-touch	10 points	10 points	10 points	10 points
	Environmental	Work Temperature	-10 ~ 60°C (14~140°F)	-10 ~ 60°C (14~140°F)	-10 ~ 60°C (14~140°F)
Storage Temperature		-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)
Relative Humidity		5 ~ 95% RH@40°C (Non-condensation)			
Vibration		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
Shock		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
EMC		CE/FCC Class B			
Water-proof		IP65			

IDP59 SERIES



Model No.	IDP5915	IDP5919	IDP59185	IDP59215	
Input interface	Signal input	VGA+DVI input			
	Communication interface	USB2.0 input			
Physical	Weight	8.3KG	11.30KG	10.24KG	14.30KG
	Pensile Direction	Optional Up or Down			
	Fixed Stand of Cantilever	Suitable for full series			
	Handle of Operation Panel	Standard			
	Keyboard tray	Optional			
	Operation Button	Nodka Standard: USB, Rotatable switch, Push button (Green , Red),Key switch, Emergency stop switch			
	Dimension (W×H×D)	507mm×386mm×139.5mm	573mm×437mm×139.5mm	593mm×372mm×139.5mm	664mm×411mm×139.5mm
Power	DC input	DC 12~24V support reverse polarity protection, overvoltage protection, overcurrent protection			
	Power Dissipation (Max)	Depend on the processor	Depend on the processor	Depend on the processor	Depend on the processor
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	18.5" HD TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1366×768	1920×1080
	Colors	16.7MB	16.7MB	16.7MB	16.7MB
	Active Area (W×H)	304.13mm×228.10mm	376.32mm×301.06mm	409.8mm×230.4mm	476.64mm×268.11mm
	Backlight	LED	LED	LED	LED
	MTBF (hour)	30000hrs	30000hrs	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248	0.248×0.248
	Luminance	420cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	800:1	1000:1	1000:1	3000:1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Capacitive Touchscreen			
	Transmittance	> 87%			
	Response Time (touch pen)	< 5ms			
	Surface Hardness	Mohs' Hardness 7H			
	Click Life	250g / 100,000,000 times	250g / 100,000,000 times	250g / 100,000,000 times	250g / 100,000,000 times
	Multi-touch	10 points	10 points	10 points	10 points
Environmental	Work Temperature	-10 ~ 60°C (14~140°F)	-10 ~ 60°C (14~140°F)	-10 ~ 60°C (14~140°F)	-10 ~ 60°C (14~140°F)
	Storage Temperature	-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)	-20 ~ 80°C (-4 ~ 176°F)
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
	Water-proof	IP65			

PANEL PC



NODKA offers several series of Panel PC products, which are all integrated with excellent design and powerful performance, and meet the different expectation to appearance, performance, function, and Active Area. Over 54 models for your choice, and we support you with highly integrated HMI solutions.

Display Module Option:



TPC6000-A series

Resistive touch screen, aluminum panel is covered with PET film, front panel IP65 protection level, size option 8",10.4",12.1",15",17",19" and 21.5".



TPC6000-C series

Bezel free capacitive touch screen, integrated aluminum frame, front panel IP65 protection level, size option 10.4",12.1",15",15.6"17",18.5", 19" and 21.5".



TPC6000-D series

Bezel free resistive touch screen, integrated aluminum frame, front panel IP65 protection level, size option 12.1", 15", 15.6" and 17".



System Box Option:

XX4 series system

Support the 6-11th Gen. Intel® Core™ i3 i5 i7, Pentium® and Celeron® LGA1151/LGA1200 socket CPU, 1 M.2 (M key 2280 PCIe Gen3x4 lane) and 1 mini SATA, option 3/5 Intel® Gigabit LAN ports, 4 RS232/485 ports, DC12~24V power input.



XX3 series system

Aluminum alloy die-casting box, COMLAC modular design, option all of COMLAC Type 3 CPU module, just like J6412, i5-7200U etc., 2 Intel® Gigabit LAN ports, 1 EasyBus port can expand to DIO,COM and USB port, DC12~24V power input.



XX2 series system

Onboard Intel® Celeron® J1900 Quad core CPU, 6 RS232 ports, option 1~3 RS485, 2 Realtek Gigabit LAN ports, DC12V power input, option DC9~30V.



TPC6000-A SERIES

Rugged Industrial Panel PC with Resistive Touch Screen



TPC6000-A Series is the fanless industrial resistive touchscreen Panel PC with PET film. IP65 water and dust proof panel, stylish enclosure, and reliable modular structure. Through flexible combination among the different panel sizes and system boxes, customer could get various solution, and replace system or upgrade the platform without changing cabinet design, which is convenient to product maintenance, replacement, production and upgrade in future.

- OS : Windows7/WES7, Windows10, Linux, Vxworks and QNX.
- CPU : Intel® Celeron® J6412, J1900, 4205U and Intel® Core™ i3 i5 i7.
- Size : 8", 10.4", 12.1", 15", 17", 19" and 21.5".



Rugged industrial grade design
Rugged metal box construction, aluminum front panel with IP65 compliant.



Neutral front Panel
Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.



5-wire resistive touch screen
5-wire resistive touch, with water, dust, oil proof, click life is 50 million times.



Flexible modular design
Product is with modular design structure, easy for maintenance and upgrade.



Easybus design
There is a Easybus extension design, it can be various bus via Mini PCIe.



Wide Work Temperature: 0°C~50°C
Product is with wide temperature components integrated, system operating temperature supports 0 up to +50°C, suitable for major industrial applications.



Quickly to do functional setup and maintenance
The case is designed for quick maintenance that a special location of the BIOS battery and RS232/485 jumper for setup and maintenance but not open the machine.



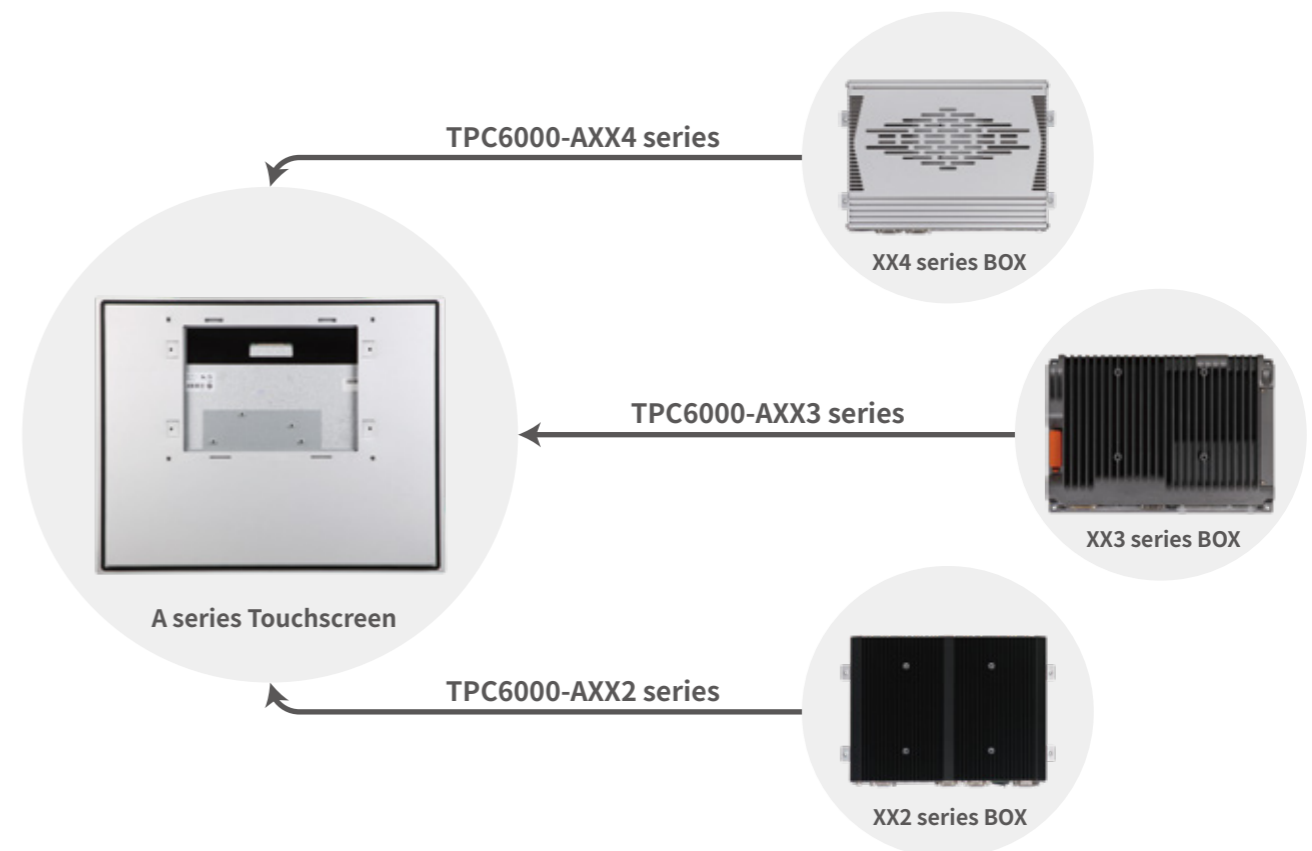
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



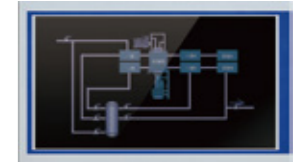
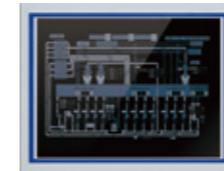
DC12V/24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Various mounting options
VESA Mount, Panel Mount, etc.



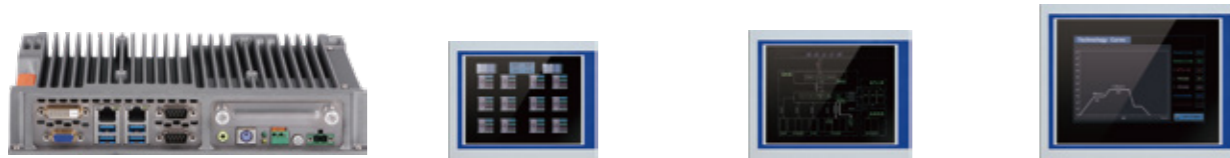
TPC6000-AXX4 SERIES



Model No.		TPC6000-A104	TPC6000-A124	TPC6000-A154
Processor	CPU	Intel® Core™ 6/7/8th i7/i5/i3, Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP Intel® Core™ 10-11th i7/i5/i3 CPU type LGA1200 . Max.65W		
	BIOS	AMI UEFI 64Mbit		
	Chipset	H110/H510		
	Memory	DDR4-2400/2666/3200 MHz, 2×SO-DIMM Slot, Up to 32GB		
	Storage interface	1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA		
I/O	Ethernet	3×Intel 10/100/1000Mbps controller(Expandable to 5 GbE LAN ports)		
	USB	4×USB3.0 / 2×USB2.0		
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card		
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)		
Physical	Dimension (W×H×D)	300.5mm×234.5mm×77mm (11.83"×9.23"×3.03")	321mm×243mm×77mm (12.64"×9.57"×3.03")	395mm×313mm×81mm (15.55"×12.32"×3.19")
	Cut out size	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")	376mm×300mm (14.80"×11.81")
	Net Weight	3.95kg	4.4kg	5.8kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current		
	Idle Mode Power Consumption	22Watt	25Watt	28Watt
LCD	LCD Type	10.4" SVGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	800×600	1024×768	1024×768
	Colors	16.2MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.264×0.264	0.240×0.240	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	800 : 1	700 : 1
	Viewing Angle	80 / 80 / 65 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
Draw life	250g / 5,000,000 times			
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

		TPC6000-A174	TPC6000-A194	TPC6000-A2154
		Intel® Core™ 6/7/8th i7/i5/i3th Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP Intel® Core™ 10-11th i7/i5/i3 CPU type LGA1200 . Max.65W		
		AMI UEFI 64Mbit		
		H110/H510		
		DDR4-2400/2666/3200 MHz, 2×SO-DIMM Slot, Up to 32GB		
		1×M.2 + 1×mSATA		
		3×Intel 10/100/1000Mbps controller(Expandable to 5 GbE LAN ports)		
		4×USB3.0 / 2×USB2.0		
		4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control		
		1×Mini-PCIe slot, extensible 3G, WIFI wireless card		
		8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)		
		434mm×342mm×81mm (17.09"×13.46"×3.19")	466mm×370mm×80mm (18.35"×14.57"×3.15")	550mm×342mm×87mm (21.65"×13.46"×3.43")
		411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
		6.5kg	7.5kg	8.5kg
		Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
		DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current		
		30Watt	35Watt	40W
		17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
		1280×1024	1280×1024	1920×1080
		16.7MB	16.7MB	16.7MB
		338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
		WLED	WLED	WLED
		50000hrs	30000hrs	50000hrs
		0.264×0.264	0.294×0.294	0.248×0.248
		350cd/m ²	250cd/m ²	250cd/m ²
		1000 : 1	1000 : 1	1000 : 1
		85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
		Resistive touch screen		
		4096×4096		
		> 75%		
		USB		
		Windows 7, Windows8, Windows10, Linux		
		< 5ms		
		Mohs' Hardness 3H		
		250g / 35,000,000 times		
		250g / 5,000,000 times		
		0 ~ 50°C (32~122°F)		
		-20 ~ 60°C (-4~140°F)		
		5 ~ 95% RH@40°C (Non-condensation)		
		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
		CE/FCC Class B		
		Front panel IP65		

TPC6000-AXX3 SERIES



Model No.	TPC6000-A103	TPC6000-A123	TPC6000-A153		
Processor	CPU				
	Intel® Celeron® J6412 / J1900 / Core™ i5 7200U				
	Main Frequency				
	Quad core 2.0GHz / Quad core 2.0GHz / Dual Core 2.5GHz				
	L3 Cache				
	1.5MB/2MB/3MB				
I/O	Chipset				
	Integrated PCH-LP				
	Memory				
	1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB				
	Storage interface				
	1×2.5" SATA bay + 1×mSATA				
Physical	Ethernet				
	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
	Audio				
	Optional				
	USB				
	4×USB3.0 / 2.0/1.1				
OS	COM				
	2×RS232 / RS485 with surge protection, RS485 support automatic flow control				
	Expansion slot				
	1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot				
	I/O port				
	DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in				
Power	Dimension (W×H×D)				
	300.5mm×234.5mm×69mm (11.83"×9.23"×2.72")	321mm×243mm×69mm (12.64"×9.57"×2.72")	395mm×313mm×73mm (15.55"×12.32"×2.87")		
	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")	376mm×300mm (14.80"×11.81")		
LCD	Cut out size(W×H)				
	Net Weight				
	3.65kg	4.1kg	5.45kg		
OS	OS				
	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX				
	Power	DC input			
		DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection			
	LCD	Power Dissipation (Max.)			
		33.6Watt	36.6Watt	38.6Watt	
		LCD Type	10.4" SVGA TFT	12.1" XGA TFT	15" XGA TFT
		Resolution	800×600	1024×768	1024×768
		Colors	16.2MB	16.7MB	16.2MB
		Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")
		Backlight	WLED	WLED	WLED
		MTBF (hour)	30000hrs	30000hrs	50000hrs
Pixel Pitch (H×V)		0.264×0.264	0.240×0.240	0.297×0.297	
Luminance		350cd/m ²	350cd/m ²	350cd/m ²	
Contrast Ratio		800 : 1	800 : 1	700 : 1	
Viewing Angle		80 / 80 / 65 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80	
Touchscreen	Touchscreen type				
	Resistive touch screen				
	Resolution				
	4096×4096				
	Transmittance				
	> 75%				
	Controller interface				
	USB				
	Driver Support				
Windows 7, Windows8, Windows10, Linux					
Environmental	Response Time (touch Pen)				
	< 5ms				
	Surface Hardness				
	Mohs' Hardness 3H				
	Click Life				
	250g / 35,000,000 times				
	Draw life				
	250g / 5,000,000 times				
	Work Temperature				
0 ~ 50°C (32~122°F)					
Storage Temperature					
-20 ~ 60°C (-4~140°F)					
Relative Humidity					
5 ~ 95% RH@40°C (Non-condensation)					
Vibration					
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64					
Shock					
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27					
EMC					
CE/FCC Class B					
Water-proof					
Front panel IP65					

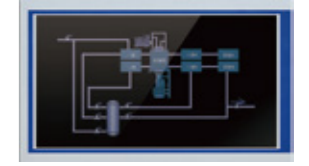
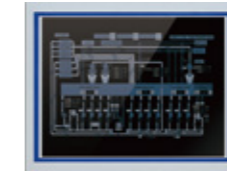


TPC6000-A173	TPC6000-A193	TPC6000-A2153
Intel® Celeron® J6412 / J1900 / Core™ i5 7200U		
Quad core 2.0GHz / Quad core 2.0GHz / Dual Core 2.5GHz		
1.5MB/2MB/3MB		
Integrated PCH-LP		
1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB		
1×2.5" SATA bay + 1×mSATA		
2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection		
Optional		
4×USB3.0 / 2.0/1.1		
2×RS232 / RS485 with surge protection, RS485 support automatic flow control		
1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot		
DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
434mm×342mm×73mm (17.09"×13.46"×2.87")	466mm×370mm×72mm (18.35"×14.57"×2.83")	550mm×342mm×79mm (21.65"×13.46"×3.11")
411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
6.35kg	7.15kg	8.3kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
40.6Watt	42.6Watt	46.4Watt
17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1280×1024	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB
338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
50000hrs	30000hrs	50000hrs
0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	250cd/m ²	250cd/m ²
1000 : 1	1000 : 1	1000 : 1
85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Resistive touch screen		
4096×4096		
> 75%		
USB		
Windows 7, Windows8, Windows10, Linux		
< 5ms		
Mohs' Hardness 3H		
250g / 35,000,000 times		
250g / 5,000,000 times		
0 ~ 50°C (32~122°F)		
-20 ~ 60°C (-4~140°F)		
5 ~ 95% RH@40°C (Non-condensation)		
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
CE/FCC Class B		
Front panel IP65		

TPC6000-AXX2 SERIES



Model No.	TPC6000-A082	TPC6000-A102	TPC6000-A122
Processor	CPU	Intel® Celeron® J1900	
	Main Frequency	Quad core 2.0GHz	
	L3 Cache	2MB	
	Chipset	Intel Bay trail SOC	
	Memory	1×DDR3L-1333, max 8GB	
	Storage interface	1×2.5" SATA bay + 1×mSATA	
I/O	Ethernet	2×Realtek 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection	
	Audio	Optional	
	USB	1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1	
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS485, RS485 support automatic flow control)	
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card	
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM	
Physical	Dimension (W×H×D)	236mm×188mm×69mm (9.29"×7.40"×2.72")	300.5mm×234.5mm×78mm (11.83"×9.23"×3.07")
	Cut out size(W×H)	219mm×171mm (8.62"×6.73")	282mm×222mm (11.10"×8.74")
	Net Weight	2.4kg	3.3kg
	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX	
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)	
	Power Dissipation (Max.)	33Watt	33.6Watt
LCD	LCD Type	8" SVGA TFT	10.4" SVGA TFT
	Resolution	800×600	800×600
	Colors	16.7MB	16.2MB
	Active Area (W×H)	162mm×121.5mm (6.38"×4.78")	211.2mm×158.4mm (8.31"×6.24")
	Backlight	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.2025×0.2025	0.264×0.264
	Luminance	250cd/m ²	350cd/m ²
	Contrast Ratio	500 : 1	800 : 1
	Viewing Angle	(L) 75 / (R) 75 / (T) 75 / (B) 75	(L) 80 / (R) 80 / (T) 65 / (B) 75
Touchscreen	Touchscreen type	Resistive touch screen	
	Resolution	4096×4096	
	Transmittance	> 75%	
	Controller interface	USB	
	Driver Support	Windows 7, Windows8, Windows10, Linux	
	Response Time (touch Pen)	< 5ms	
	Surface Hardness	Mohs' Hardness 3H	
	Click Life	250g / 35,000,000 times	
	Draw life	250g / 5,000,000 times	
	Environmental	Work Temperature	0 ~ 50°C (32~122°F)
Storage Temperature		-20 ~ 60°C (-4~140°F)	
Relative Humidity		5 ~ 95% RH@40°C (Non-condensation)	
Vibration		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
Shock		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
EMC		CE/FCC Class B	
Water-proof		Front panel IP65	



TPC6000-A152	TPC6000-A172	TPC6000-A192	TPC6000-A2152
Intel® Celeron® J1900			
Quad core 2.0GHz			
2MB			
Intel Bay trail SOC			
1×DDR3L-1333, max 8GB			
1×2.5" SATA bay + 1×mSATA			
2×Realtek 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection			
Optional			
1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1			
1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS485, RS485 support automatic flow control)			
1×Mini-PCIe slot, extensible 3G, WIFI wireless card			
VGA / HDMI / 2×GLAN / 4×USB / 6×COM			
395mm×313mm×73mm (15.55"×12.32"×2.87")	434mm×342mm×73mm (17.09"×13.46"×2.87")	466mm×370mm×72mm (18.35"×14.57"×2.83")	550mm×342mm×79mm (21.65"×13.46"×3.11")
376mm×300mm (14.80"×11.81")	411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
5.15kg	6.05kg	6.9kg	8.18kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
DC 12V, support reverse polarity protection, +9~+30V (Option)			
38.6Watt	40.6Watt	42.6Watt	46.4Watt
15" XGA TFT	17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1024×768	1280×1024	1280×1024	1920×1080
16.2MB	16.7MB	16.7MB	16.7MB
304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED	WLED
50000hrs	50000hrs	30000hrs	50000hrs
0.297×0.297	0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²
700 : 1	1000 : 1	1000 : 1	1000 : 1
(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Resistive touch screen			
4096×4096			
> 75%			
USB			
Windows 7, Windows8, Windows10, Linux			
< 5ms			
Mohs' Hardness 3H			
250g / 35,000,000 times			
250g / 5,000,000 times			
0 ~ 50°C (32~122°F)			
-20 ~ 60°C (-4~140°F)			
5 ~ 95% RH@40°C (Non-condensation)			
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
CE/FCC Class B			
Front panel IP65			

TPC6000-C SERIES

Modular Industrial Panel PC with Bezel free Capacitive Multi-touch



TPC6000-C series is fanless industrial Panel PC with projected capacitive touch panel, IP65 water and dust proof panel, stylish enclosure, and reliable modular structure. Through flexible combination among the different panel sizes and system boxes, customer could get various solution, and replace system or upgrade the platform without changing cabinet design, which is convenient to product maintenance, replacement, production and upgrade in future.

- OS : Windows7/WES7, Windows10, Linux, Vxworks and QNX.
- CPU : Intel® Celeron® J6412, J1900, 4205U and Intel® Core™ i3 i5 i7.
- Size : 10.4", 12.1", 15", 15.6", 17", 18.5", 19" and 21.5".



Rugged industrial grade design
Rugged metal box construction, aluminum front panel with IP65 compliant.



Neutral front Panel
Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.



Projected capacitive touch screen
With multi-point projection capacitive, stylish design and the best touch experience, with click life of 50 million times.



Flexible modular design
Product is with modular design structure, easy for maintenance and upgrade.



Easybus design
There is a Easybus extension design, it can be various bus via Mini PCIe.



Wide Work Temperature:0°C~50°C
Product is with wide temperature components integrated, system operating temperature supports 0 up to +50°C, suitable for major industrial applications.



Quickly to do functional setup and maintenance
The case is designed for quick maintenance that a special location of the BIOS battery and RS232/485 jumper for setup and maintenance but not open the machine.



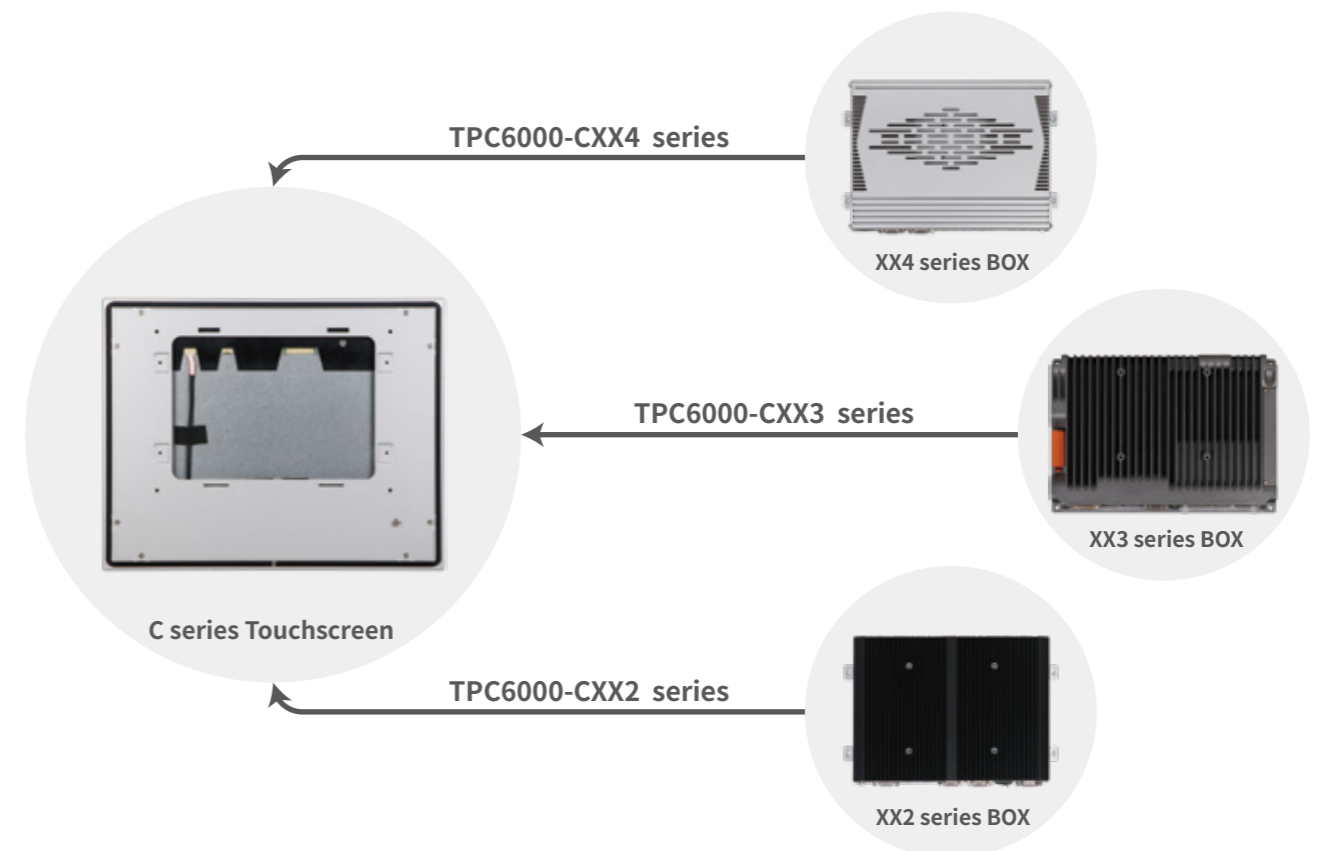
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



DC12V/24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Various mounting options
VESA Mount, Panel Mount, etc.



TPC6000-CXX4 SERIES



Model No.		TPC6000-C104	TPC6000-C124	TPC6000-C124W	TPC6000-C154
Processor	CPU	Intel® Core™ 6/7/8th i7/i5/i3, Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP Intel® Core™ 10-11th i7/i5/i3 CPU type LGA1200 . Max.65W			
	BIOS	AMI UEFI 64Mbit			
	Chipset	H110/H510			
	Memory	DDR4-2400/2666/3200 MHz, 2×SO-DIMM Slot, Up to 32GB			
	Storage interface	1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA			
I/O	Ethernet	3×Intel 10/100/1000Mbps controller(Expandable to 5 GbE LAN ports)			
	USB	4×USB3.0 / 2×USB2.0			
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control			
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card			
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)			
Physical	Dimension (W×H×D)	298.5mm×238.5mm×74mm (11.75"×9.38"×2.91")	321mm×247mm×74mm (12.64"×9.72"×2.91")	328mm×239mm×74mm (12.91"×9.41"×2.91")	371mm×295mm×74mm (14.60"×11.61"×2.91")
	Cut out size	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	310mm×221mm (12.20"×8.70")	354mm×278mm (13.94"×10.94")
	Net Weight	3.4kg	3.7kg	3.7kg	4.7kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection			
	Idle Mode Power Consumption	25Watt	25Watt	28Watt	28Watt
LCD	LCD Type	10.4" XGA TFT	12.1" XGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	1024×768	1024×768	1280×800	1024×768
	Colors	16.7MB	16.7MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	261mm×163mm (10.27"×6.41")	304mm×228mm (11.97"×8.98")
	Backlight	LED	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.204×0.204	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	900 : 1	800 : 1	1000 : 1	700 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	88 / 88 / 88 / 88	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Capacitive Touchscreen			
	Transmittance	> 87%			
	Controller interface	USB			
	Multi-touch	Windows7, Windws 8, Windows 10, Linux			
	Driver Support	10 points (windows system)			
	Surface Hardness	Mohs' Hardness 7H			
Environmental	Work Temperature	0 ~ 50° C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
	Water-proof	Front panel IP65			



TPC6000-C1564	TPC6000-C174	TPC6000-C1854	TPC6000-C194	TPC6000-C2154
Intel® Core™ 6/7/8th i7/i5/i3, Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP Intel® Core™ 10-11th i7/i5/i3 CPU type LGA1200 . Max.65W				
AMI UEFI 64Mbit				
H110/H510				
DDR4-2400/2666/3200 MHz, 2×SO-DIMM Slot, Up to 32GB				
1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA				
3×Intel 10/100/1000Mbps controller(Expandable to 5 GbE LAN ports)				
4×USB3.0 / 2×USB2.0				
4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control				
1×Mini-PCIe slot, extensible 3G, WIFI wireless card				
8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)				
405mm×258mm×74mm (15.94"×10.16"×2.91")	428mm×342mm×74mm (16.85"×13.46"×2.91")	480mm×304mm×74mm (18.90"×11.97"×2.91")	460mm×369mm×74mm (18.11"×14.53"×2.91")	550mm×342mm×74mm (21.65"×13.46"×2.91")
387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
5.2kg	5.7kg	5.9kg	6.5kg	6.9kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX				
DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection				
30Watt	30Watt	34Watt	37Watt	40Watt
15.6" TFT	17" SXGA TFT	18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB	16.7MB	16.7MB
344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
LED	WLED	WLED	WLED	WLED
50000hrs	50000hrs	50000hrs	30000hrs	50000hrs
0.252×0.252	0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248
400cd/m ²	350cd/m ²	450cd/m ²	250cd/m ²	250cd/m ²
800 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
85 / 85 / 50 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Capacitive Touchscreen				
> 87%				
USB				
Windows7, Windws 8, Windows 10, Linux				
10 points (windows system)				
Mohs' Hardness 7H				
0 ~ 50° C (32~122°F)				
-20 ~ 60°C (-4~140°F)				
5 ~ 95% RH@40°C (Non-condensation)				
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27				
CE/FCC Class B				
Front panel IP65				

TPC6000-CXX3 SERIES



Model No.	TPC6000-C1043	TPC6000-C123	TPC6000-C123W	TPC6000-C153	
Processor	CPU				
	Intel® Celeron® J6412 / J1900 / Core™ i5 7200U				
	Main Frequency				
	Quad core 2.0GHz / Quad core 2.0GHz / Dual Core 2.5GHz				
	L3 Cache				
	1.5MB/2MB/3MB				
I/O	Chipset				
	Integrated PCH-LP				
	Memory				
	1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB				
	Storage interface				
1×2.5" SATA bay + 1×mSATA					
I/O	Ethernet				
	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
	Audio				
	Optional				
	USB				
	4×USB3.0 / 2.0/1.1				
Physical	COM				
	2×RS232 / RS485 with surge protection, RS485 support automatic flow control				
	Expansion slot				
	1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot				
	I/O port				
DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in					
Physical	Dimension (W×H×D)	298.5mm×238.5mm×65mm (11.75"×9.38"×2.60")	321mm×247mm×66mm (12.64"×9.72"×2.60")	328mm×239mm×74mm (12.91"×9.41"×2.91")	371mm×295mm×66mm (14.60"×11.61"×2.60")
	Cut out size(W×H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	310mm×221mm (12.20"×8.70")	354mm×278mm (13.94"×10.94")
	Net Weight	3.46kg	3.54kg	3.7kg	4.54kg
OS	OS				
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX					
Power	DC input				
	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection				
LCD	Power Dissipation (Max.)	35Watt	37Watt	28Watt	36.6Watt
	LCD Type	10.4" XGA TFT	12.1" XGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	1024×768	1024×768	1280×800	1024×768
	Colors	16.7MB	16.7MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	261mm×163mm (10.27"×6.41")	304mm×228mm (11.97"×8.98")
	Backlight	LED	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.204×0.204	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	900 : 1	800 : 1	1000 : 1	700 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	88 / 88 / 88 / 88	80 / 80 / 80 / 80
	Touchscreen	Touchscreen type			
Capacitive Touchscreen					
Transmittance					
> 87%					
Controller interface					
USB					
Environmental	Driver Support				
	Windows7, Windws 8, Windows 10, Linux				
	Multi-touch				
	10 points (windows system)				
	Surface Hardness				
Mohs' Hardness 7H					
Environmental	Work Temperature				
	0 ~ 50°C (32~122°F)				
	Storage Temperature				
	-20 ~ 60°C (-4~140°F)				
	Relative Humidity				
	5 ~ 95% RH@40°C (Non-condensation)				
	Vibration				
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64					
Shock					
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27					
EMC					
CE/FCC Class B					
Water-proof					
Front panel IP65					

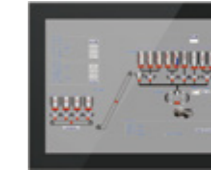
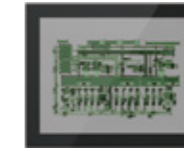


TPC6000-C1563	TPC6000-C173	TPC6000-C1853	TPC6000-C193	TPC6000-C2153
Intel® Celeron® J6412 / J1900 / Core™ i5 7200U				
Quad core 2.0GHz / Quad core 2.0GHz / Dual Core 2.5GHz				
1.5MB/2MB/3MB				
Integrated PCH-LP				
1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB				
1×2.5" SATA bay + 1×mSATA				
2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
Optional				
4×USB3.0 / 2.0/1.1				
2×RS232 / RS485 with surge protection, RS485 support automatic flow control				
1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot				
DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in				
405mm×258mm×66mm (15.94"×10.16"×2.60")	428mm×342mm×66mm (16.85"×13.46"×2.60")	480mm×304mm×66mm (18.90"×11.97"×2.60")	460mm×369mm×66mm (18.11"×14.53"×2.60")	550mm×342mm×66mm (21.65"×13.46"×2.60")
387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
4.8kg	5.54kg	5.8kg	6.38kg	6.76kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX				
DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection				
42Watt	38.6Watt	40.6Watt	42.6Watt	48Watt
15.6" TFT	17" SXGA TFT	18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB	16.7MB	16.7MB
344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
LED	WLED	WLED	WLED	WLED
50000hrs	50000hrs	30000hrs	30000hrs	50000hrs
0.252×0.252	0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248
400cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
800 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
85 / 85 / 50 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Capacitive Touchscreen				
> 87%				
USB				
Windows7, Windws 8, Windows 10, Linux				
10 points (windows system)				
Mohs' Hardness 7H				
0 ~ 50°C (32~122°F)				
-20 ~ 60°C (-4~140°F)				
5 ~ 95% RH@40°C (Non-condensation)				
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27				
CE/FCC Class B				
Front panel IP65				

TPC6000-CXX2 SERIES



Model No.		TPC6000-C1042	TPC6000-C112	TPC6000-C123W	TPC6000-C152
Processor	CPU	Intel® Celeron® J1900			
	Main Frequency	Quad core 2.0GHz			
	L3 Cache	2MB			
	Chipset	Intel Bay trail SOC			
	Memory	1×DDR3L-1333, max 8GB			
	Storage interface	1×2.5" SATA bay + 1×mSATA			
I/O	Ethernet	2×Realtek 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection			
	Audio	Optional			
	USB	1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1			
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)			
	Expansion slot	1×Mini-PCIe slot, extensible 3G,WIFI wireless card			
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM			
Physical	Dimension (W×H×D)	298.5mm×238.5mm×75mm (11.75"×9.38"×2.95")	321mm×247mm×75mm (12.64"×9.72"×2.95")	328mm×239mm×74mm (12.91"×9.41"×2.91")	371mm×295mm×75mm (14.60"×11.61"×2.95")
	Cut out size(W×H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	310mm×221mm (12.20"×8.70")	354mm×278mm (13.94"×10.94")
	Net Weight	3.08kg	3.34kg	3.7kg	4.34kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)			
	Power Dissipation (Max.)	34.6Watt	36.6Watt	28Watt	38.6Watt
LCD	LCD Type	10.4" XGA TFT	12.1" XGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	1024×768	1024×768	1280×800	1024×768
	Colors	16.7MB	16.7MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	261mm×163mm (10.27"×6.41")	304mm×228mm (11.97"×8.98")
	Backlight	LED	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.204×0.204	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	900 : 1	800 : 1	1000 : 1	700 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	88 / 88 / 88 / 88	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Capacitive Touchscreen			
	Transmittance	> 87%			
	Controller interface	USB			
	Driver Support	Windows7, Windws 8, Windows 10, Linux			
	Multi-touch	10 points (windows system)			
	Surface Hardness	Mohs' Hardness 7H			
Environmental	Work Temperature	0 ~ 50°C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
	Water-proof	Front panel IP65			



TPC6000-C1562	TPC6000-C172	TPC6000-C1852	TPC6000-C192	TPC6000-C2152
Intel® Celeron® J1900				
Quad core 2.0GHz				
2MB				
Intel Bay trail SOC				
1×DDR3L-1333, max 8GB				
1×2.5" SATA bay + 1×mSATA				
2×Realtek 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
Optional				
1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1				
1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)				
1×Mini-PCIe slot, extensible 3G,WIFI wireless card				
VGA / HDMI / 2×GLAN / 4×USB / 6×COM				
405mm×258mm×75mm (15.94"×10.16"×2.95")	428mm×342mm×75mm (16.85"×13.46"×2.95")	480mm×304mm×75mm (18.90"×11.97"×2.95")	460mm×369mm×75mm (18.11"×14.53"×2.95")	550mm×342mm×75mm (21.65"×13.46"×2.95")
387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
4.8kg	5.34kg	5.8kg	6.18kg	6.76kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX				
DC 12V, support reverse polarity protection, +9~+30V (Option)				
38.6Watt	40.6Watt	42.6Watt	44.6Watt	48Watt
15.6" TFT	17" SXGA TFT	18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB	16.7MB	16.7MB
344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
LED	WLED	WLED	WLED	WLED
50000hrs	50000hrs	30000hrs	30000hrs	50000hrs
0.252×0.252	0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248
400cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²
800 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
85 / 85 / 50 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Capacitive Touchscreen				
> 87%				
USB				
Windows7, Windws 8, Windows 10, Linux				
10 points (windows system)				
Mohs' Hardness 7H				
0 ~ 50°C (32~122°F)				
-20 ~ 60°C (-4~140°F)				
5 ~ 95% RH@40°C (Non-condensation)				
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27				
CE/FCC Class B				
Front panel IP65				

TPC6000-D SERIES

Modular Industrial Panel PC with Bezel free Resistive Touchscreen



TPC6000-D Series is the fanless industrial Panel PC with bezel free resistive touchscreen. IP65 water and dust proof panel, stylish enclosure, and reliable modular structure. Through flexible combination among the different panel sizes and system boxes, customer could get various solution, and replace system or upgrade the platform without changing cabinet design, which is convenient to product maintenance, replacement, production and upgrade in future.

- OS : Windows7/WES7, Windows10, Linux, Vxworks and QNX.
- CPU : Intel® Celeron® J6412, J1900, 4205U and Intel® Core™ i3 i5 i7.
- Size : 12.1", 15", 15.6" and 17".



Rugged industrial grade design
Rugged metal box construction, aluminum front panel with IP65 compliant.



Neutral front Panel
Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.



5-wire resistive touch screen
5-wire resistive touch, with water, dust, oil proof, click life is 50 million times.



Flexible modular design
Product is with modular design structure, easy for maintenance and upgrade.



Easybus design
There is a Easybus extension design, it can be various bus via Mini PCIe.



Wide Work Temperature: 0°C~50°C
Product is with wide temperature components integrated, system operating temperature supports 0 up to +50°C, suitable for major industrial applications.



Quickly to do functional setup and maintenance
The case is designed for quick maintenance that a special location of the BIOS battery and RS232/485 jumper for setup and maintenance but not open the machine.



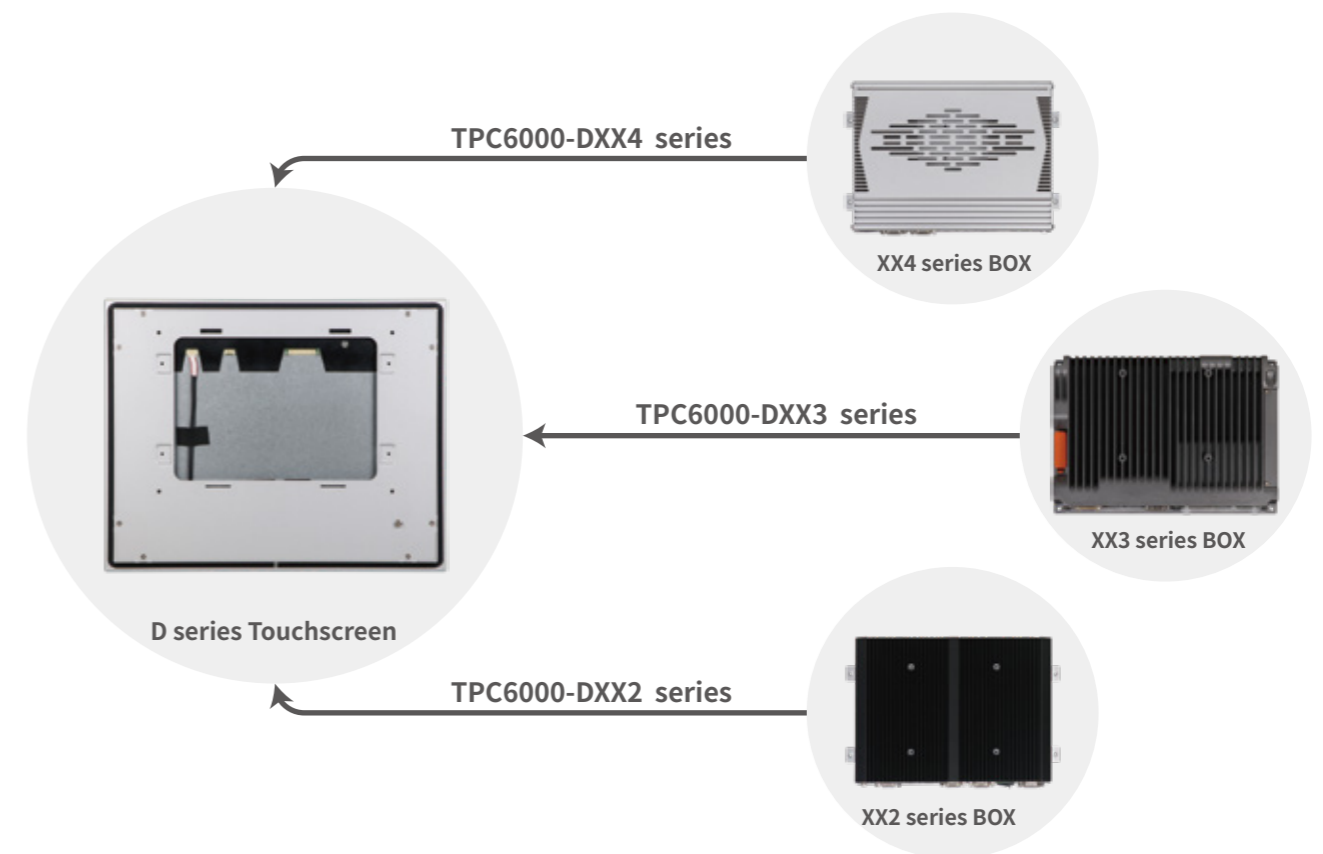
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



DC12V/24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Various mounting options
VESA Mount, Panel Mount, etc.



TPC6000-DXX4 SERIES



Model No.		TPC6000-D124	TPC6000-D154	TPC6000-D1564	TPC6000-D174
Processor	CPU	Intel® Core™ 6/7/8th i7/i5/i3, Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP			
	BIOS	AMI UEFI 64Mbit			
	Chipset	H110/H510			
	Memory	DDR4-2400/2666/3200 MHz, 2×SO-DIMM Slot, Up to 32GB			
	Storage interface	1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA			
	I/O	Ethernet	3×Intel 10/100/1000Mbps controller (Expandable to 5 GbE LAN ports)		
USB		4×USB3.0 / 2×USB2.0			
COM		4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control			
Expansion slot		1×Mini-PCIe slot, extensible 3G, WIFI wireless card			
I/O port		8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)			
Physical	Dimension (W×H×D)	321mm×247mm×74mm (12.64"×9.72"×2.91")	371mm×295mm×74mm (14.60"×11.61"×2.91")	405mm×258mm×74mm (15.94"×10.16"×2.91")	428mm×342mm×74mm (16.85"×13.46"×2.91")
	Cut out size	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")
	Net Weight	3.7kg	4.7kg	4.7kg	5.7kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current			
	Idle Mode Power Consumption	25Watt	28Watt	28Watt	30Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	15.6" TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1366×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	LED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.252×0.252	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	800 : 1	1000 : 1
	Viewing Angle	80/ 80/ 80/ 80	80/ 80/ 80/ 80	85/ 85/ 50/ 80	85/ 85/ 80/ 80
Touchscreen	Touchscreen type	Resistive touch screen			
	Resolution	4096×4096			
	Transmittance	> 75%			
	Controller interface	USB			
	Driver Support	Windows 7, Windows8, Windows10, Linux			
	Response Time (touch Pen)	< 5ms			
	Surface Hardness	Mohs' Hardness 3H			
	Click Life	250g / 35,000,000 times			
	Draw life	250g / 5,000,000 times			
	Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
Storage Temperature		-20 ~ 60°C (-4~140°F)			
Relative Humidity		5 ~ 95% RH@40°C (Non-condensation)			
Vibration		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
Shock		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
EMC		CE/FCC Class B			
Water-proof		Front panel IP65			

TPC6000-DXX3 SERIES



Model No.		TPC6000-D123	TPC6000-D153	TPC6000-D1563	TPC6000-D173
Processor	CPU	Intel® Celeron® J6412 / J1900 / Core™ i5 7200U			
	Main Frequency	Quad core 2.0GHz /Quad core 2.0GHz / Dual Core 2.5GHz			
	L3 Cache	1.5MB/2MB/3MB			
	Chipset	Integrated PCH-LP			
	Memory	1×DDR3L-1600MHz, max 8GB / 1×DDR4-2400MHz, max 16GB			
	Storage interface	1×2.5" SATA bay + 1×mSATA			
I/O	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection			
	Audio	Optional			
	USB	4×USB3.0 / 2.0/1.1			
	COM	2×RS232 / RS485 with surge protection,RS485 support automatic flow control			
	Expansion slot	1×Mini-PCIe slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot			
	I/O port	DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in			
Physical	Dimension (W×H×D)	321mm×247mm×66mm (12.64"×9.72"×2.60")	371mm×295mm×66mm (14.60"×11.61"×2.60")	405mm×258mm×66mm (15.94"×10.16"×2.60")	428mm×342mm×66mm (16.85"×13.46"×2.60")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")
	Net Weight	3.54kg	4.54kg	4.54kg	5.54kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
Power	DC input	DC 12~24V±10% , support reverse polarity protection,overvoltage protection,overcurrent protection			
	Power Dissipation (Max.)	36.6Watt	38.6Watt	<48Watt	40.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	15.6" TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1366×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	LED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.252×0.252	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	800 : 1	1000 : 1
	Viewing Angle	80/ 80/ 80/ 80	80/ 80/ 80/ 80	85/ 85/ 50/ 80	85/ 85/ 80/ 80
Touchscreen	Touchscreen type	Resistive touch screen			
	Resolution	4096×4096			
	Transmittance	> 75%			
	Controller interface	USB			
	Driver Support	Windows 7, Windows8, Windows10, Linux			
	Response Time (touch Pen)	< 5ms			
	Surface Hardness	Mohs' Hardness 3H			
	Click Life	250g / 35,000,000 times			
	Draw life	250g / 5,000,000 times			
	Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
Storage Temperature		-20 ~ 60°C (-4~140°F)			
Relative Humidity		5 ~ 95% RH@40°C (Non-condensation)			
Vibration		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
Shock		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
EMC		CE/FCC Class B			
Water-proof		Front panel IP65			

TPC6000-DXX2 SERIES



Model No.		TPC6000-D122	TPC6000-D152	TPC6000-D1562	TPC6000-D172
Processor	CPU	Intel® Celeron® J1900			
	Main Frequency	Quad core 2.0GHz			
	L3 Cache	2MB			
	Chipset	Intel Bay trail SOC			
	Memory	1×DDR3L-1333, max 8GB			
	Storage interface	1×2.5" SATA bay + 1×mSATA			
I/O	Ethernet	2×Realtek 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection			
	Audio	Optional			
	USB	1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1			
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS485, RS485 support automatic flow control)			
	Expansion slot	1×Mini-PCle slot, extensible 3G, WIFI wireless card			
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM			
Physical	Dimension (W×H×D)	321mm×247mm×75mm (12.64"×9.72"×2.95")	371mm×295mm×75mm (14.60"×11.61"×2.95")	405mm×258mm×75mm (15.94"×10.16"×2.95")	428mm×342mm×75mm (16.85"×13.46"×2.95")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")	411mm×325mm (16.18"×12.80")
	Net Weight	3.3kg	4.34kg	4.8kg	5.34kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)			
	Power Dissipation (Max.)	36.6Watt	38.6Watt	38.6Watt	40.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	15.6" TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1366×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	LED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.252×0.252	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	800 : 1	1000 : 1
Viewing Angle	80/ 80/ 80/ 80	80/ 80/ 80/ 80	85/ 85/ 50/ 80	85/ 85/ 80/ 80	
Touchscreen	Touchscreen type	Resistive touch screen			
	Resolution	4096×4096			
	Transmittance	> 75%			
	Controller interface	USB			
	Driver Support	Windows 7, Windows8, Windows10, Linux			
	Response Time (touch Pen)	< 5ms			
	Surface Hardness	Mohs' Hardness 3H			
	Click Life	250g / 35,000,000 times			
	Draw life	250g / 5,000,000 times			
Environmental	Work Temperature	0 ~ 50°C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
	Water-proof	Front panel IP65			



**For Your Future
Automation Computing Solutions.**



WP SERIES

WP Series Industrial Panel PCs - Designed for Harsh Environments



WP series Stainless steel Resistive/Multi-touch Panel PC is designed to meet the challenges in critical environments. It supports a wide operating temperature range from -20°C to 60°C and can withstand vibration. PC combined with a fully IP69K rated water/dust-proof enclosure and 6 x M12-type connectors, can resist ingress of high-temperature steam and pressure washing, well suited for food and chemical industry, as well as outdoor applications such as gas station or parking management system.

The stainless steel design protects all connections and cables against contamination and chemical influences. WP series is control and operating devices that meet strict hygiene requirements, which is quite important in the pharmaceutical, agriculture, food, beverage and chemical industries.

- OS : Windows7/WES7, Windows10, Linux.
- CPU : Intel® Celeron® J1900
- Size : 15", 19" and 21.5".



Rugged IP69K stainless steel case
High-strength 304 stainless steel housing that meets IP69K protection resistance detergent.



Fanless design
Fanless design but working temperature is -20 to 60 °C.



Neutral front Panel
Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.



M12 type plug
All interfaces use waterproof aviation plugs which are waterproof, corrosion-resistant, chemical-resistant, detergent-resistant, and disinfectant-resistant.



Excellent touch accuracy
Touchscreen with water, dust, oil proof, click life is 50 million times.



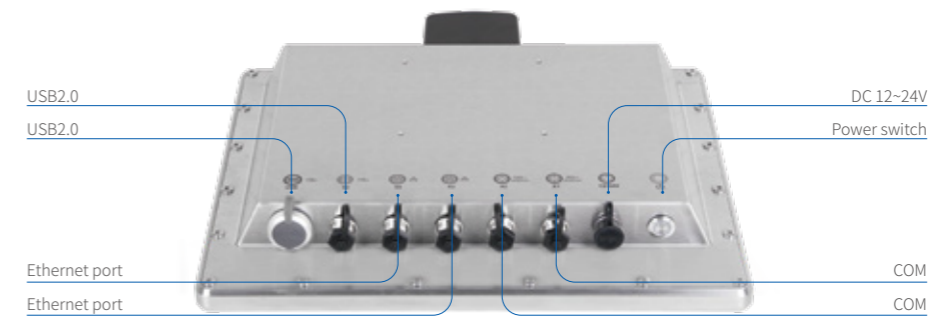
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



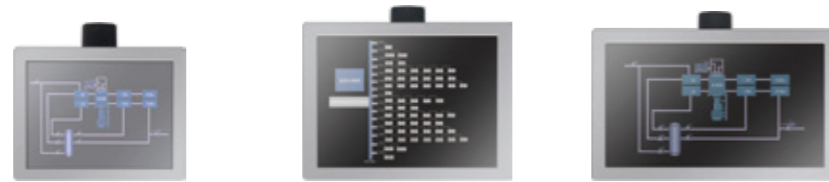
Flexible modular design
Intel® Celeron® J1900, Intel® Core™ i5-7200, easy for maintenance and upgrade.



DC12V/24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection.



WPXXXT-R1 SERIES



Model No.		WP1501T-R1	WP1901T-R1	WP2151T-R1
Processor	CPU	Intel® Celeron® J1900/J6412		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB/1.5MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB/ 1×DDR4-2400, max 16GB		
	Storage interface	1×mSATA		
I/O	Ethernet	2×Intel 1000Mbps		
	Audio	NULL		
	USB	2×USB2.0		
	COM	2×RS232(option RS485 before ordering)		
	Expansion slot	Mini-PCIe slot, Option either Wifi or 4G/3G module (Default: wifi)		
Physical	Dimension (W×H×D)	360mm×284mm×54mm (14.17"×11.18"×2.13")	440mm×365mm×54mm (17.32"×14.37"×2.13")	540mm×332mm×54mm (21.26"×13.07"×2.13")
	Mounting	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA
	Net Weight	5.4kg	7.9kg	8.6kg
	OS	Windows7, Windows8, Windows10, Linux		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over current protection		
	Idle Mode Power Consumption	38.6Watt	42Watt	46Watt
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	The whole machine IP69K		

WPXXXT-C SERIES



Model No.		WP1501T-C	WP1901T-C	WP2151T-C
Processor	CPU	Intel® Celeron® J1900/J6412		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB/1.5MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB/ 1×DDR4-2400, max 16GB		
	Storage interface	1×mSATA		
I/O	Ethernet	2×Intel 1000Mbps		
	Audio	NULL		
	USB	2×USB2.0		
	COM	2×RS232(option RS485 before ordering)		
	Expansion slot	Mini-PCIe slot, Option either Wifi or 4G/3G module (Default: wifi)		
Physical	Dimension(W×H×D)	360mm×284mm×54mm (14.17"×11.18"×2.13")	440mm×365mm×54mm (17.32"×14.37"×2.13")	540mm×332mm×54mm (21.26"×13.07"×2.13")
	Cut out size(W×H)	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA
	Net Weight	5.3kg	7.9kg	8.6kg
	OS	Windows7, Windows8, Windows10, Linux		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over current protection		
	Power Dissipation (Max.)	38.6Watt	42Watt	46Watt
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Capacitive Touchscreen		
	Transmittance	> 87%		
	Controller interface	USB		
	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
EMC	CE/FCC Class B			
Water-proof	The whole machine IP69K			

Touch Screen Monitor



NODKA offers several series of Touch monitor products in different panel size, which are including 8",10.4",12.1",15",17",18.5",19" and 21.5", with 5-wire resistive and bezel free resistive touch screen, IR touch and Projected capacitive Click life screen for your choice, provides RS232 or USB touch interface, supports VGA,DVI or HDMI input, with VESA,Panel,Open frame and Rack mounting options.



Rugged industrial grade design
Rugged metal box construction, aluminum front panel with IP65 compliant.

Wide Work Temperature: 0°C~50°C
Product is with wide temperature components integrated, system operating temperature supports 0 up to +50°C, suitable for major industrial applications.

Neutral front Panel
Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.

DC12V/24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.

Flexible modular design
Display module option resistive touch, bezel free capacitive touch and bezel free resistive touch, box option XXX2, XXX3 and XXX4 system.

Various mounting options
Support Panel mounted and Wall mounted with VESA stand.

Display module option:



PANEL5000-A Series

Resistive touch screen monitor, optional size: 8",10.4",12.1",15",17", 19" and 21.5".



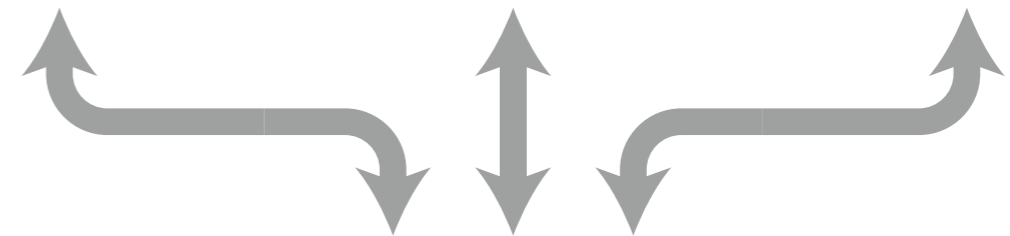
PANEL5000-C Series

Capacitive touch screen monitor, optional size:10.4",12.1",15",15.6",17" 18.5", 19" and 21.5".



PANEL5000-D Series

Bezel free and resistive touch screen monitor, optional size: 12.1",15",15.6" and 17".



USB_TOUCH
USB port
USB port
VGA port
HDMI port
DC 12~24V



PANEL5000-XXX3

DVI port
VGA port
DC 12~24V
USB_TOUCH



PANEL5000-XXX2

PANEL5000-AXX3 SERIES



Model No.	PANEL5000-A103	PANEL5000-A123	PANEL5000-A153	
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel		
	Dimension (W×H×D)	300.5mm×234.5mm×50mm (11.83"×9.23"×1.97")	321mm×243mm×50mm (12.64"×9.57"×1.97")	395mm×313mm×54mm (15.55"×12.32"×2.13")
	Drill Hole Size (W×H)	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")	376mm×300mm (14.80"×11.81")
	Box structure	Front panel frame: aluminum-magnesium alloy; Back cover: SGCC, silver		
	Mounting	Support panel mounted, wall-mounted, Desktop (VESA 75x75 & 100x100)		
	Power Supply	DC 12-24V		
	Power Dissipation	5W	8W	10W
	Signal input	VGA & HDMI		
	Extension interface	2×USB2.0		
	Net Weight	2.60kg	2.96kg	4.4kg
LCD	LCD Type	10.4" SVGA TFT	12.1" XGA TFT	15.6" XGA TFT
	Resolution	800×600	1024×768	1024×768
	Colors	16.2MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.264×0.264	0.240×0.240	0.297×0.297
	Luminance	350cd/m ²	300cd/m ²	420cd/m ²
	Contrast Ratio	500 : 1	800 : 1	800 : 1
	Viewing Angle	80 / 80 / 65 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		



	PANEL5000-A173	PANEL5000-A193	PANEL5000-A2153
	Set Contrast ratio and Luminance via OSD at the back panel		
	434mm×342mm×54mm (17.09"×13.46"×2.13")	466mm×370mm×53mm (18.35"×14.57"×2.09")	550mm×342mm×60mm (21.65"×13.46"×2.36")
	411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
	Front panel frame: aluminum-magnesium alloy; Back cover: SGCC, silver		
	Support panel mounted, wall-mounted, Desktop (VESA 75x75 & 100x100)		
	DC 12-24V		
	12W	14W	17W
	VGA & HDMI		
	2×USB2.0		
	5.16kg	6.04kg	7.1kg
	17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
	1280×1024	1280×1024	1920×1080
	16.7MB	16.7MB	16.7MB
	338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	WLED	WLED	WLED
	30000hrs	30000hrs	50000hrs
	0.264×0.264	0.294×0.294	0.248×0.248
	250cd/m ²	250cd/m ²	250cd/m ²
	1000 : 1	1000 : 1	1000 : 1
	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
	Resistive touch screen		
	4096×4096		
	> 75%		
	USB		
	Windows 7, Windows8, Windows10, Linux		
	< 5ms		
	Mohs' Hardness 3H		
	250g / 35,000,000 times		
	250g / 5,000,000 times		
	0 ~ 50°C (32~122°F)		
	-20 ~ 60°C (-4~140°F)		
	5 ~ 95% RH@40°C (Non-condensation)		
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	CE/FCC Class B		
	Front panel IP65		

PANEL5000-AXX2 SERIES



Model No.	PANEL5000-A082	PANEL5000-A102	PANEL5000-A122	
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel		
	Dimension (W×H×D)	236mm×188mm×49.5mm (9.29"×7.40"×1.95")	300.5mm×234.5mm×50mm (11.83"×9.23"×1.97")	321mm×243mm×50mm (12.64"×9.57"×1.97")
	Drill Hole Size (W x H)	219mm×171mm (8.62"×6.73")	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")
	Box structure	Front panel: aluminum-magnesium alloy, anodized coating ;Back cover: SGCC, Ground isolation protection		
	Mounting	Support Embedded,wall-mounted,Desktop and VESA mounting		
	Power Supply	Phoenix terminal: DC 12~24V input		
	Power Dissipation	5W	5W	8W
	Signal input	VGA & DVI-D		
	Net Weight	1.50kg (3.31lb)	2.50kg (5.51lb)	2.86kg (6.31lb)
LCD	LCD Type	8" SVGA TFT	10.4" SVGA TFT	12.1" XGA TFT
	Resolution	800×600	800×600	1024×768
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	162mm×121.5mm (6.38"×4.78")	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.2025×0.2025	0.264×0.264	0.240×0.240
	Luminance	250cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	500 : 1	800 : 1	800 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 65 / 75	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB/COM		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		



Model No.	PANEL5000-A152	PANEL5000-A172	PANEL5000-A192	PANEL5000-A2152
General	Set Contrast ratio and Luminance via OSD at the back panel			
	395mm×313mm×54mm (15.55"×12.32"×2.13")	434mm×342mm×54mm (17.09"×13.46"×2.13")	466mm×370mm×53mm (18.35"×14.57"×2.09")	550mm×342mm×60mm (21.65"×13.46"×2.36")
	376mm×300mm (14.80"×11.81")	411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
	Front panel: aluminum-magnesium alloy, anodized coating ;Back cover: SGCC, Ground isolation protection			
	Support Embedded,wall-mounted,Desktop and VESA mounting			
	Phoenix terminal: DC 12~24V input			
	10W	12W	14W	17W
	VGA & DVI-D			
	4.10kg (9.04lb)	5.00kg (11.02lb)	5.82kg (12.83lb)	7.02kg (15.48lb)
LCD	15" XGA TFT	17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
	1024×768	1280×1024	1280×1024	1920×1080
	16.2MB	16.7MB	16.7MB	16.7MB
	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	WLED	WLED	WLED	WLED
	50000hrs	50000hrs	30000hrs	50000hrs
	0.297×0.297	0.264×0.264	0.294×0.294	0.248×0.248
	350cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²
	700 : 1	1000 : 1	1000 : 1	1000 : 1
	80 / 80 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Resistive touch screen			
	4096×4096			
	> 75%			
	USB/COM			
	Windows 7, Windows8, Windows10, Linux			
	< 5ms			
	Mohs' Hardness 3H			
	250g / 35,000,000 times			
	250g / 5,000,000 times			
Environmental	0 ~ 50°C (32~122°F)			
	-20 ~ 60°C (-4~140°F)			
	5 ~ 95% RH@40°C (Non-condensation)			
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	CE/FCC Class B			
	Front panel IP65			

PANEL5000-CXX3 SERIES



Model No.	PANEL5000-C1043	PANEL5000-C123	PANEL5000-C123W	PANEL5000-C153	
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel			
	Dimension (W×H×D)	298.5mm×238.5mm×47mm (11.75"×9.38"×1.85")	321mm×247mm×47mm (12.64"×9.72"×1.85")	328mm×239mm×47mm (12.91"×9.41"×1.85")	371mm×295mm×47mm (14.60"×11.61"×1.85")
	Drill Hole Size (W x H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	310mm×221mm (12.20"×8.70")	354mm×278mm (13.94"×10.94")
	Box structure	Front panel frame: aluminum-magnesium alloy; Back cover: SGCC, silver			
	Mounting	Support panel mounted, wall-mounted, Desktop (VESA 75x75 & 100x100)			
	Power Supply	DC 12-24V			
	Power Dissipation	6W	8W	8W	10W
	Signal input	VGA & HDMI			
	Extension interface	2×USB2.0			
	Net Weight	2.08kg(4.59lb)	2.34kg (5.16lb)	2.34kg(5.16lb)	3.34kg (7.36lb)
LCD	LCD Type	10.4" XGA TFT	12.1" XGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	1024×768	1024×768	1280×800	1024×768
	Colors	16.7MB	16.7MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	261.12mm×163mm (10.28"×6.42")	304mm×228mm (11.97"×8.98")
	Backlight	LED	WLED	LED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.204×0.204	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	900 : 1	800 : 1	1000 : 1	700 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	88 / 88 / 88 / 88	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Multi-point capacitive touch screen			
	Transmittance	> 87%			
	Controller interface	USB			
	Driver Support	Windows7, Windows 8, Windows 10, Linux			
	Multi-touch	10 points (windows system)			
Environmental	Surface Hardness	Mohs' Hardness 7H			
	Work Temperature	0 ~ 50°C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
Water-proof	Front panel IP65				



Model No.	PANEL5000-C1563	PANEL5000-C173	PANEL5000-C1853	PANEL5000-C193	PANEL5000-C2153
General	Set Contrast ratio and Luminance via OSD at the back panel				
	405mm×258mm×47mm (15.94"×10.16"×1.85")	428mm×342mm×47mm (16.85"×13.46"×1.85")	480mm×304mm×47mm (18.90"×11.97"×1.85")	460mm×369mm×47mm (18.11"×14.53"×1.85")	550mm×342mm×47mm (21.65"×13.46"×1.85")
	387mm×240mm (15.24"×9.45")	411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
	Front panel frame: aluminum-magnesium alloy; Back cover: SGCC, silver				
	Support panel mounted, wall-mounted, Desktop (VESA 75x75 & 100x100)				
	DC 12-24V				
	12W	12W	10W	14W	17W
	VGA & HDMI				
	2×USB2.0				
	3.8kg (8.38lb)	4.34kg (9.57lb)	4.6kg (1.014lb)	5.18kg (11.42lb)	5.56kg (12.26lb)
LCD	15.6" TFT	17" SXGA TFT	18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT
	1366×768	1280×1024	1366×768	1280×1024	1920×1080
	16.7MB	16.7MB	16.7MB	16.7MB	16.7MB
	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	LED	WLED	WLED	WLED	WLED
	50000hrs	50000hrs	50000hrs	30000hrs	50000hrs
	0.252×0.252	0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248
	400cd/m ²	350cd/m ²	450cd/m ²	250cd/m ²	250cd/m ²
	800 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
	85 / 85 / 50 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Multi-point capacitive touch screen				
	> 87%				
	USB				
	Windows7, Windows 8, Windows 10, Linux				
	10 points (windows system)				
Environmental	Mohs' Hardness 7H				
	0 ~ 50°C (32~122°F)				
	-20 ~ 60°C (-4~140°F)				
	5 ~ 95% RH@40°C (Non-condensation)				
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27				
	CE/FCC Class B				
Front panel IP65					

PANEL5000-CXX2 SERIES



Model No.	PANEL5000-C1042	PANEL5000-C122	PANEL5000-C122W	PANEL5000-C152	
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel			
	Dimension (W×H×D)	298.5mm×238.5mm×47mm (11.75"×9.38"×1.85")	321mm×247mm×47mm (12.64"×9.72"×1.85")	328mm×239mm×47mm (12.91"×9.41"×1.85")	371mm×295mm×47mm (14.60"×11.61"×1.85")
	Drill Hole Size (W x H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	310mm×221mm (12.20"×8.70")	354mm×278mm (13.94"×10.94")
	Box structure	Front panel: aluminum-magnesium alloy, anodized coating ;Back cover: SGCC, Ground isolation protection			
	Mounting	Support Embedded,wall-mounted,Desktop and VESA mounting			
	Power Supply	Phoenix terminal: DC 12~24V input			
	Power Dissipation	6W	8W	8W	10W
	Signal input	VGA & HDMI			
	Extension interface	2×USB2.0			
	Net Weight	2.08kg(4.59lb)	2.34kg (5.16lb)	2.34kg(5.16lb)	3.34kg (7.36lb)
LCD	LCD Type	10.4" XGA TFT	12.1" XGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	1024×768	1024×768	1280×800	1024×768
	Colors	16.7MB	16.7MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	261.12mm×163mm (10.28"×6.42")	304mm×228mm (11.97"×8.98")
	Backlight	LED	WLED	LED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.204×0.204	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	900 : 1	800 : 1	1000 : 1	700 : 1
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	88 / 88 / 88 / 88	80 / 80 / 80 / 80
Touchscreen	Touchscreen type	Multi-point capacitive touch screen			
	Transmittance	> 87%			
	Controller interface	USB			
	Driver Support	Windows7, Windws 8, Windows 10, Linux			
	Multi-touch	10 points (windows system)			
Environmental	Surface Hardness	Mohs' Hardness 7H			
	Work Temperature	0 ~ 50°C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
Water-proof	Front panel IP65				



Model No.	PANEL5000-C1562	PANEL5000-C172	PANEL5000-C1852	PANEL5000-C192	PANEL5000-C2152	
General	Set Contrast ratio and Luminance via OSD at the back panel					
	Dimension (W×H×D)	405mm×258mm×47mm (15.94"×10.16"×1.85")	428mm×342mm×47mm (16.85"×13.46"×1.85")	480mm×304mm×47mm (18.90"×11.97"×1.85")	460mm×369mm×47mm (18.11"×14.53"×1.85")	550mm×342mm×47mm (21.65"×13.46"×1.85")
	Drill Hole Size (W x H)	387mm×240mm (15.24"×9.45")	411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
	Box structure	Front panel: aluminum-magnesium alloy, anodized coating ;Back cover: SGCC, Ground isolation protection				
	Mounting	Support Embedded,wall-mounted,Desktop and VESA mounting				
	Power Supply	Phoenix terminal: DC 12~24V input				
	Power Dissipation	12W	12W	10W	14W	17W
	Signal input	VGA & HDMI				
	Extension interface	2×USB2.0				
	Net Weight	3.8kg (8.38lb)	4.34kg (9.57lb)	4.6kg (1.014lb)	5.18kg (11.42lb)	5.56kg (12.26lb)
LCD	LCD Type	15.6" TFT	17" SXGA TFT	18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1366×768	1280×1024	1366×768	1280×1024	1920×1080
	Colors	16.7MB	16.7MB	16.7MB	16.7MB	16.7MB
	Active Area (W×H)	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	LED	WLED	WLED	WLED	WLED
	MTBF (hour)	50000hrs	50000hrs	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.252×0.252	0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248
	Luminance	400cd/m ²	350cd/m ²	450cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	800 : 1	1000 : 1	1000 : 1	1000 : 1	1000 : 1
	Viewing Angle	85 / 85 / 50 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Multi-point capacitive touch screen					
	> 87%					
	USB					
	Windows7, Windws 8, Windows 10, Linux					
	10 points (windows system)					
Environmental	Mohs' Hardness 7H					
	0 ~ 50°C (32~122°F)					
	-20 ~ 60°C (-4~140°F)					
	5 ~ 95% RH@40°C (Non-condensation)					
	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64					
	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27					
	CE/FCC Class B					
Front panel IP65						

PANEL5000-DXX3 SERIES



Model No.	PANEL5000-D123	PANEL5000-D153	PANEL5000-D1563	PANEL5000-D173	
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel			
	Dimension (W×H×D)	321mm×247mm×47mm (12.64"×9.72"×1.85")	371mm×295mm×47mm (14.60"×11.61"×1.85")	405mm×258mm×47mm (15.94"×10.16"×1.85")	428mm×342mm×47mm (16.85"×13.46"×1.85")
	Drill Hole Size (W x H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.45")	411mm×325mm (16.18"×12.80")
	Box structure	Front panel frame: aluminum-magnesium alloy; Back cover: SGCC, silver			
	Mounting	Support panel mounted, wall-mounted, Desktop (VESA 75x75 & 100x100)			
	Power Supply	DC 12-24V			
	Power Dissipation	8W	10W	12W	12W
	Signal input	VGA & HDMI			
	Extension interface	2×USB2.0			
LCD	Net Weight	2.95kg	3.34kg	3.8kg	4.34kg
	LCD Type	12.1" XGA TFT	15" XGA TFT	15.6" TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1366×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	LED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.252×0.252	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	800 : 1	1000 : 1
	Viewing Angle	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80	85 / 85 / 80 / 80
	Touchscreen	Touchscreen type	Resistive touch screen		
Resolution		4096×4096			
Transmittance		> 75%			
Controller interface		USB			
Driver Support		Windows 7, Windows8, Windows10, Linux			
Response Time (touch Pen)		< 5ms			
Surface Hardness		Mohs' Hardness 3H			
Click Life		250g / 35,000,000 times			
Draw life		250g / 5,000,000 times			
Environmental	Work Temperature	0 ~ 50°C (32~122°F)			
	Storage Temperature	-20 ~ 60°C (-4~140°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class B			
	Water-proof	Front panel IP65			

PANEL5000-DXX2 SERIES



Model No.	PANEL5000-D122	PANEL5000-D152	PANEL5000-D1562	PANEL5000-D172		
General	Control button	Set Contrast ratio and Luminance via OSD at the back panel				
	Dimension (W×H×D)	321mm×247mm×47mm (12.64"×9.72"×1.85")	371mm×295mm×47mm (14.60"×11.61"×1.85")	405mm×258mm×47mm (15.94"×10.16"×1.85")	428mm×342mm×47mm (16.85"×13.46"×1.85")	
	Drill Hole Size (W x H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.45")	411mm×325mm (16.18"×12.80")	
	Box structure	Front panel: aluminum-magnesium alloy, anodized coating ;Back cover: SGCC, Ground isolation protection				
	Mounting	Support Embedded,wall-mounted,Desktop and VESA mounting				
	Power Supply	Phoenix terminal: DC 12~24V input				
	Power Dissipation	8W	10W	12W	12W	
	Signal input	VGA & DVI-D				
	Net Weight	2.95kg	3.34kg	3.8kg	4.34kg	
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	15.6" TFT	17" SXGA TFT	
	Resolution	1024×768	1024×768	1366×768	1280×1024	
	Colors	16.7MB	16.2MB	16.7MB	16.7MB	
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55"×7.62")	338mm×270mm (13.31"×10.63")	
	Backlight	WLED	WLED	LED	WLED	
	MTBF (hour)	30000hrs	50000hrs	50000hrs	50000hrs	
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.252×0.252	0.264×0.264	
	Luminance	350cd/m ²	350cd/m ²	400cd/m ²	350cd/m ²	
	Contrast Ratio	800 : 1	700 : 1	800 : 1	1000 : 1	
	Viewing Angle	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80	85 / 85 / 80 / 80	
	Touchscreen	Touchscreen type	Resistive touch screen			
		Resolution	4096×4096			
Transmittance		> 75%				
Controller interface		USB/COM				
Driver Support		Windows 7, Windows8, Windows10, Linux				
Response Time (touch Pen)		< 5ms				
Surface Hardness		Mohs' Hardness 3H				
Click Life		250g / 35,000,000 times				
Draw life		250g / 5,000,000 times				
Environmental	Work Temperature	0 ~ 50°C (32~122°F)				
	Storage Temperature	-20 ~ 60°C (-4~140°F)				
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)				
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64				
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27				
	EMC	CE/FCC Class B				
	Water-proof	Front panel IP65				

WP SERIES

WP Series IP69K Industrial Touch Monitor



WP waterproof products is designed for harsh environments with a high-strength 304 stainless steel housing that meets IP69K protection. It has the characteristics of waterproof, corrosion resistance, chemical resistance, detergent resistance, disinfectant resistance etc, and can be cleaned or sterilized with a high-pressure water gun during operation. It is widely used in harsh applications, like food processing, clinical, chemical, chemical or pharmaceutical fields.

All-in-one design, fully sealed enclosure, industrial grade touch screen, optional 15, 19 and 21.5 size, All interfaces are designed with M12 aerial plugs, which can prevent the entry of water vapor in humid environments. DC 12~24V with overcurrent, overvoltage and reverse connection protection measures. Standard VESA mounting ensuring easy and flexible installation in a variety of environments.



Rugged IP69K stainless steel case

High-strength 304 stainless steel housing that meets IP69K protection.



Neutral front Panel

Neutral front panel design without logo, accept print logo service, as well as neutral packing optional.



Excellent touch accuracy

Touchscreen with water, dust, oil proof, click life is 50 million times.



Fanless design

Fanless design but working temperature is -20 to 60 °C.



M12 waterproof plug

All interfaces use waterproof aviation plugs which are waterproof, corrosion-resistant, chemical-resistant, detergent-resistant, and disinfectant-resistant.



DC12V/24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection.



WPXXXXP-R SERIES



Model No.	WP1501P-R	WP1901P-R	WP2151P-R	
General	Control button	-		
	Dimension (W×H×D)	360mm×284mm×58mm (14.17"×11.18"×2.28")	440mm×365mm×58mm (17.32"×14.37"×2.28")	540mm×332mm×59mm (21.26"×13.07"×2.32")
	Box structure	Stainless steel machine, drawing process		
	Mounting	Support VESA mountin		
	Power Supply	12~24VDC input		
	Power Dissipation	13.6W	18.4W	21.3W
	Signal input	HDMI		
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
Draw life	250g / 5,000,000 times			
Environmental	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	The whole machine IP69K		

WPXXXXP-C SERIES



Model No.	WP1501P-C	WP1901P-C	WP2151P-C	
General	Control button	-		
	Dimension (W×H×D)	360mm×284mm×58mm (14.17"×11.18"×2.28")	440mm×365mm×58mm (17.32"×14.37"×2.28")	540mm×332mm×59mm (21.26"×13.07"×2.32")
	Box structure	Stainless steel machine, drawing process		
	Mounting	Support VESA mountin		
	Power Supply	12~24VDC input		
	Power Dissipation	13.6W	18.4W	21.3W
	Signal input	HDMI		
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
	Viewing Angle	80 / 80 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
Touchscreen	Touchscreen type	Multi-point capacitive touch screen		
	Transmittance	> 87%		
	Controller interface	USB		
Touchscreen	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 60°C (-4~140°F)		
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)		
Environmental	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	The whole machine IP69K		

Fanless Industrial Computer



Nodka fanless industrial computer pack extreme computing power into a mini form, which is especially important for industrial use. Different mounting options are available for different product type, VESA, Din Rail and rack mounting, and these units can be mounted virtually anywhere and handle just about any job. NODKA's fanless industrial computer adheres to the full-featured and cost-effective concepts, focus on solid shape and stylish design.



eBOX-3000 Series

High-performance, fanless Mini PC based on Intel® Core™ 6/7/8/9th generation i7 / i5 / i3 / Pentium® / Celeron® desktop, processors, support PCI / PCIe expansion, optional 2 models.



eBOX-32XX Series

Cost effective and fanless industrial computer based on Intel Celeron® J1900 quad-core Low-power processor, optional 4 models.



eBOX-3240 Series

Low-power High-performance industrial computer based on Intel® Celeron® J6412 processor, optional 3 models.



eBOX-3250

Low-power High-performance industrial computer based on Intel® Core™ / Pentium® / Celeron® LAG1151/LAG1200 processor.



eBOX-3310

Low-power High-performance industrial computer based on Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U processor.



eBOX-3560

Low-power Atom fanless Mini PC, Intel® Celeron® J3355 dual-core processor.



eBOX-3622-H

High-performance and extensible industrial computer based on Intel® Core™ 4th i7 / i5 / i3 / Pentium® / Celeron® desk processor, supports PCI and PCIe slots.



eBOX-3625

High-performance and Fanless Industrial Mini Computer based on Intel® Core™ 6/7/8/9th generation i7 / i5 / i3 / Pentium® / Celeron® desk processor, with Integrated remote transmission sender module.

eBOX-3000 SERIES

Intel® Core™ i3/i5/i7/ Pentium® / Celeron® High performance rugged fanless PC



eBOX-3000 is a rugged fanless PC which based on Intel® the 6/7/8/9th Gen. Core™i3 i5 i7,Pentium® and Celeron® LGA1151 socket type CPU, the box covers with large aluminum block for cooling system. Inside of the box, there is no cable design, onboard dual channel DDR4 SODIMM slots, up to 32G memory. There are 2 intel Ethernet RJ45 slots, can be extended to 6 LAN ports, option VGA, DVI and HDMI interfaces and supporting multi screen synchronous/asynchronous, totally 6 RS232 and 2 RS232/485 optional, 1~2 PCI and PCIe slots can be extended various cards.

- OS : Windows7, Windows10 and Linux.



Rugged and fanless design
Sealed box with excellent cooling system.



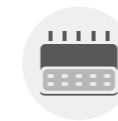
Wide work temperature: -20°C~60°C
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major



DC12V~24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



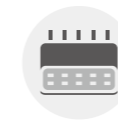
Dual Ethernet port standard configuration
There are 2 intel Ethernet ports with high speed EtherCAT and jumbo frames support.



4×RS232, 2×RS232/485
8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



2 Mini PCIe expansion slots
Rapid expansion CAN, ProfiBUS, FieldBus and other field bus, or 3G / 4G, WIFI, GPS communication module.



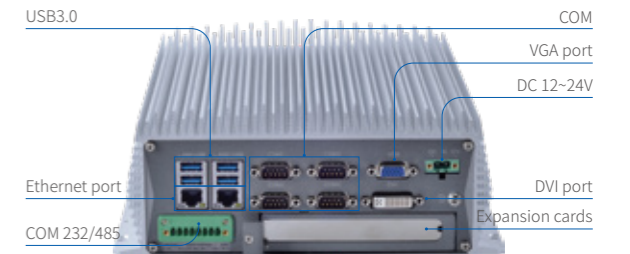
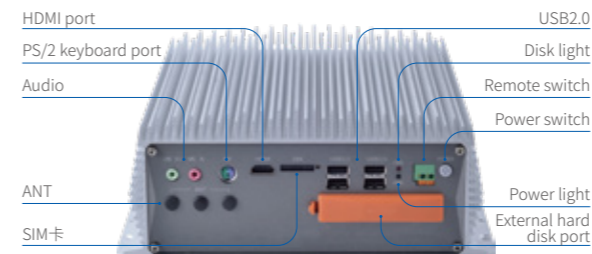
Multi-network ports and serial port expansion
Up to 6 Gigabit Ethernet ports and 12 RS232 / 485 serial ports.



Remote power ON/OFF
Reserved PS-ON terminal on the front/rear panel (only one available).



Fast maintenance design of disk
Product is with modular design structure,easy for maintenance and upgrade.



eBOX-3000



eBOX-3000H

eBOX-32XX SERIES

Fanless PC with Low power consumption Intel® Celeron® J1900 CPU



Rugged and fanless design
Sealed box with excellent cooling system.



Without cable inside
Without cable connection to protect the reliability and lower failure rate.



Fastened power connector
DC12V power input, with over-current, overvoltage and reverse protection measures, the interface using.



Support synchronous or asynchronous Display
There VGA + HDMI display interfaces, support synchronous or asynchronous Display.



Wide Work Temperature: -20°C~60°C
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major



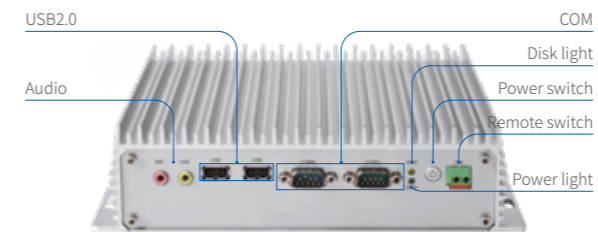
Dual Ethernet port standard configuration
2 built-in Realtek Gigabit Ethernet ports.



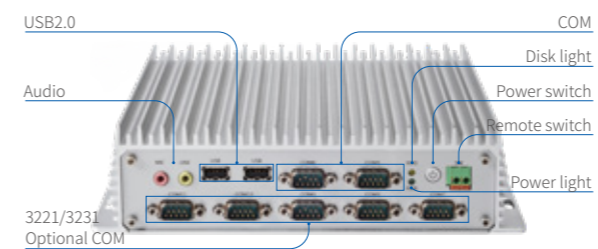
Optional multi-serial configuration
Standard configuration of 6 serial ports, up to 11.



Remote power ON/OFF
Reserved PS-ON terminal on the front/rear panel (only one available).



eBOX-3230



eBOX-3231

eBOX-32XX series is a fanless industrial computer based on Intel® Celeron® J1900 processor, there are a lot of I/O ports, such as 2 GeLAN, 6 USB2.0/3.0, VGA, HDMI and 6/11 RS232 or RS485. Without cable design inside, compact and rugged box with large aluminum fins design, be able to ensure the reliability and heat dissipation.

- OS: Windows XP/XPE, Windows7/WES7, Windows10 and Linux.



eBOX-3240 SERIES

Fanless mini PC with Intel® Celeron® J6412 Low-power processor

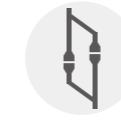


eBOX-3240 series is a fanless industrial computer based on the Intel Celeron J6412 processor. IO includes 2 Realtek Gigabit Ethernet ports, option up to 4 LAN ports, HDMI, DP, VGA display interfaces support synchronous or asynchronous triple display, 4 RS232 /RS48, 2 RS232 /RS48, 2 RS232 serial ports, 1 miniPCIe and 1 M.2 expansion slot can expand Wifi, 3G/4G/5G, and there is 2x DB9 additional ports option which expand to 2 RS232 or 2 CAN bus.

- OS: Windows 10 IoT, Linux.



Rugged and fanless design
Sealed box with excellent cooling system.



Without cable inside
Without cable connection to protect the reliability and lower failure rate.



Fastened power connector
DC12V power input, with over-current, overvoltage and reverse protection measures, the interface using.



Support synchronous or asynchronous Display
There VGA + HDMI + DP display interfaces, support synchronous or asynchronous Display.



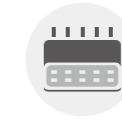
Rich expansion slots
1 x Mini-PCIe slot scalable 3G/4G module. 1 x M.2 slot for 5G module with extensible USB protocol
1 x SATA ,1 x M.2 bay support SATA storage.



Wide work temperature: -20°C~60°C
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major.



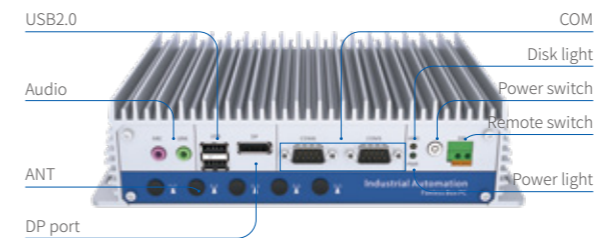
Dual Ethernet port standard configuration
2 built-in Realtek Gigabit Ethernet ports.



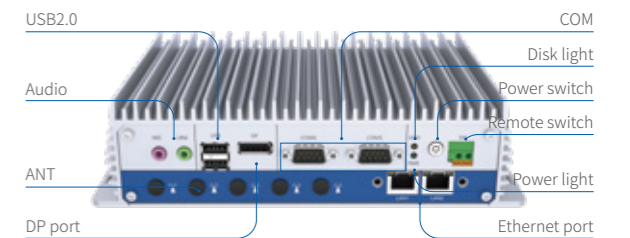
4 x RS232/RS48, 2 x RS232
8KV electrostatic protection, 600W TV S surge protection, RS485 support automatic data flow control.



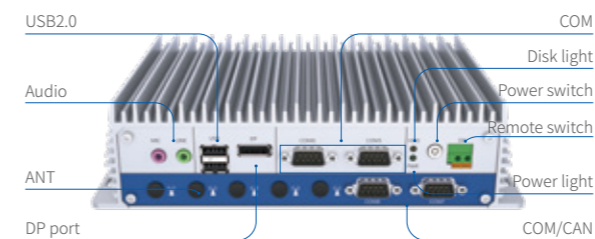
Remote power ON/OFF
Reserved PS-ON terminal on the front/rear panel (only one available).



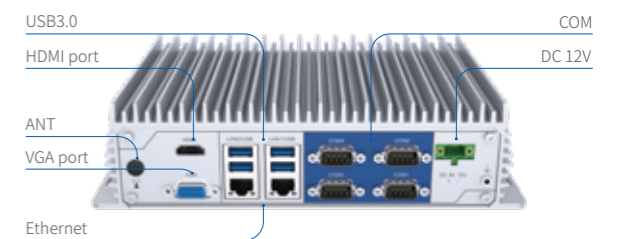
eBOX-3240



eBOX-3240-L2



eBOX-3240-C2



eBOX-3250

Fanless mini PC with Intel® Core™ / Pentium® / Celeron® LAG1151 (TDP 35W)
High performance Low power processor



eBOX-3250 is a fanless industrial computer, support Intel Core™ / Pentium / Celeron /Core i3 i5 i7 LAG1151 (TDP 35W) socket type low power consumption processor, it is COMLAC design which means CPU module upgrade simply but without any change of the housing. Comparing with other basic PC, eBOX-3250 build in 3 Intel gigabit LAN ports, 8 isolated DI and 8 DO, widely used for AGV (Automated Guided Vehicle) application.

- OS: Windows 7, Windows 10 , Linux.



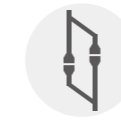
Rugged and fanless design

Sealed box with excellent cooling system.



Wide work temperature: -20°C~60°C

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major.



Without cable inside

Without cable connection to protect the reliability and lower failure rate.



3× Ethernet port standard configuration

3 built-in Intel Gigabit Ethernet ports.



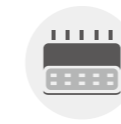
DC12V~24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



4× RS232/RS485 dip switch

Selectable to support RS232 or RS485 mode by the switch. RS232/485 Interface with surge protection, RS485 support automatic flow control.



CAN/COM port expansion

Expansion 2× CAN or 2× RS232/RS485.



Remote power ON/OFF

Reserved PS-ON terminal on the front/real panel (only one available).



8 Digital Input and 8 Digital Output

8DI+8DO, Wet contact input(24V), OC gate output (24V 300mA)



Rich expansion slots

1× mSATA bay support mSATA storage, 1× M.2 Key-M Slot(NVME SSD, 2280).



eBOX-3250



eBOX-3310

Fanless mini PC with Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U Low-power processor



eBOX-3310 is a Fanless industrial computer based on Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U processor. CPU and memory designed with modular, All I / O are wide temperature chip, 2 Intel Gigabit Ethernet ports, 4 USB2.0 / 3.0 interfaces, VGA / DVI display interface, 2 RS232 / 485 serial ports, DC12 / 24 power input, and the design of Disk, BIOS battery and RS232/485 setup are humanized because it is easy to replace and maintenance. There are not cable inside that to ensure the reliability of products. eBOX-3310 is used aluminum alloy die-casting structure, compact design and both strong, especially for more complex and harsh industrial environment.

- OS : Windows7/WES7, Windows10, Linux, Vxworks and QNX.



Rugged and fanless design

Sealed aluminum magnesium alloy die casting box with excellent cooling system.



Wide work temperature: -20°C~60°C

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major.



Quickly to do functional setup and maintenance

The case is designed for quick maintenance that a special location of the BIOS battery and RS232/485 jumper for setup and maintenance but not open the machine.



Fast maintenance design of disk

Product is with modular design structure, easy for maintenance and upgrade.



Dual Ethernet port standard configuration

There are 2 intel Ethernet ports with high speed EtherCAT and jumbo frames support.



DC12V~24V Power input

DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



CPU and memory modular design

Core i3/i5/i7/Celeron core module configuration for product maintenance and upgrades.



2×RS232/485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



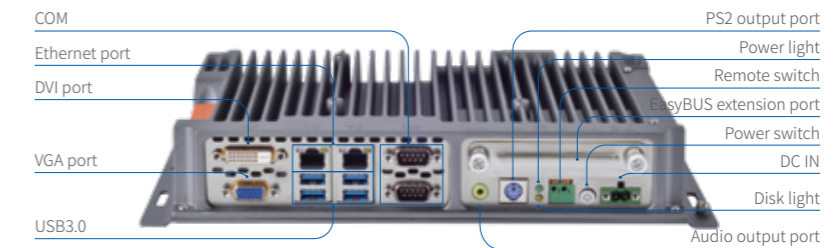
Expansion of CAN, Pro BUS, FieldBus and other bus modules

Host design Easybus expansion mechanism, so that customers through the Mini PCIe to achieve a variety of industrial field bus interface.



Remote power ON/OFF

Reserved PS-ON terminal on the front/rear panel (only one available).



eBOX-3310



eBOX-3560

DIN rail fanless mini PC Intel® Celeron® J3355 Low-power processor



eBOX-3560 is a fanless mini PC based on Intel® Celeron® J3355 lowpower processor, with DIN rail mounting, Large aluminum fin radiator and without cable inside design. Onboard CPU and SODIMM memory, there are 2 Intel Ethernet slots, optional 4LAN or 6LAN. There are 4 USB2.0/3.0 ,HDMI and 2RS232/485. It support DC9V~24V power input with over current, over voltage, surge and reverse connection protection.It is suitable for IOT industrial gateway, machine vision, EtherCAT motion control and other applications.

- OS : Windows10 and Linux.



Rugged and fanless design

Sealed box with excellent cooling system, din-rail is a better way to mount in the control cabinet.



Wide work temperature: -20°C~60°C

Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major.



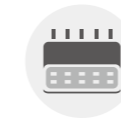
DC 9V~24V Power input

DC 9V ~ 24V power input, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



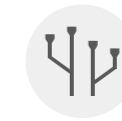
Dual Ethernet port standard configuration

There are 2 intel Ethernet ports with high speed EtherCAT and jumbo frames support.



2 COM ports can be set to 2 RS232 or RS485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



2 Mini PCIe expansion slots

Rapid expansion CAN, Profibus, Fieldbus and other field bus, or 3G / 4G, WIFI, GPS communication module.



Multi-network ports available

Up to 6 Gigabit Ethernet ports and 8 RS232 / 485 serial ports.



eBOX-3560



eBOX-3622-H

Fanless Mini PC with Intel® the 4th Gen. Core™i3 i5 i7,Pentium® and Celeron® CPU



eBOX-3622-H is based on high-performance Intel® Core™ 4th i7 / i5 / i3 / Pentium® / Celeron® desktop processor fanless industrial computer, two dual-channel SODIMM slot, maximum support 16GB memory, support SATA2.0 / 3.0 hard drive and MSATA SSD Electronics I / O includes 2 Intel Gigabit Ethernet ports, 6 USB2.0 / 3.0 ports, 4 RS232 and 2 RS232 / 485 serial ports, VGA / DVI display interface and support synchronous or asynchronous Display. 2PCI / PCIe bus slots, so customers can expand a variety of function boards, it is suitable for CNC systems, robots, machine vision and image video analysis and other industries.

- OS : Windows7, Windows10 and Linux.



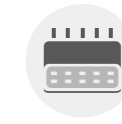
Rugged and fanless design
Sealed box with excellent cooling system.



Wide work temperature:-20°C~60°C
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major



Flexible expansion of PCI, PCIe and Mini-PCIe expansion
There are 2 expansion slots, optional 2 PCI slots or 1PCI+1PCIe, user friendly design of external accessible HDD and expansion card modules, less cable connection and easy for assembly and maintenance.



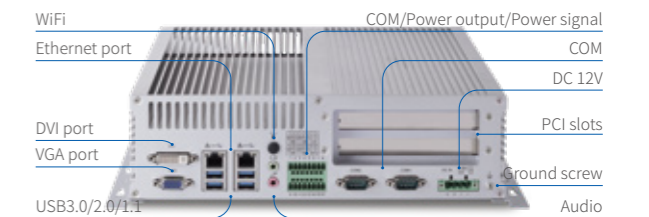
4 × RS232, 2 × RS232/485
8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



Dual Ethernet port standard configuration
There are 2 intel Ethernet ports with high speed Ether-CAT and jumbo frames support.



Remote power ON/OFF
Reserved PS-ON terminal on the front/rear panel (only one available).



eBOX-3622-H



eBOX-3625

Fanless mini PC with Intel® Core™ i3/i5/i7/Pentium® /Celeron® High performance processor



eBOX-3625 is based on high-performance Intel® Core™ 6/7/8/9th generation i3/i5/i7, Pentium® and Celeron® desktop processor fanless industrial computer, two dual-channel SODIMM slot, maximum support 32GB memory, support MSATA SSD. Electronics I/O includes 3 Intel Gigabit Ethernet ports, 4 USB3.0 / 2.0/1.1 ports, 2 RS232 / 485 serial ports, DVI display interface, 1 e-LINK sender Port, support Integrated remote transmission sender module. There is 1 minPCIE can expand CAN, 4G, WIFI and Bluetooth communication module. 1 PCI and 1 PCIe bus slots, so customers can expand a variety of function boards, it is suitable for CNC systems, robots, machine vision and image video analysis and other industries.

- OS : Windows10 and Linux.



Rugged and fanless design
Sealed box with excellent cooling system.



Wide work temperature: -20°C~60°C
Product is with wide temperature components integrated, system operating temperature supports -20 up to +60°C, suitable for major



Software dongle design
Vertical USB interface is provided inside the machine to prevention of loss.



e-LINK sender Port
Integrated Remote transmission sender module achieving long distance transmission up to 100 meters which working with Nodka integrated.



3 Ethernet ports standard configuration
There are 3 Intel Ethernet ports support high speed EtherCAT and jumbo frames support.



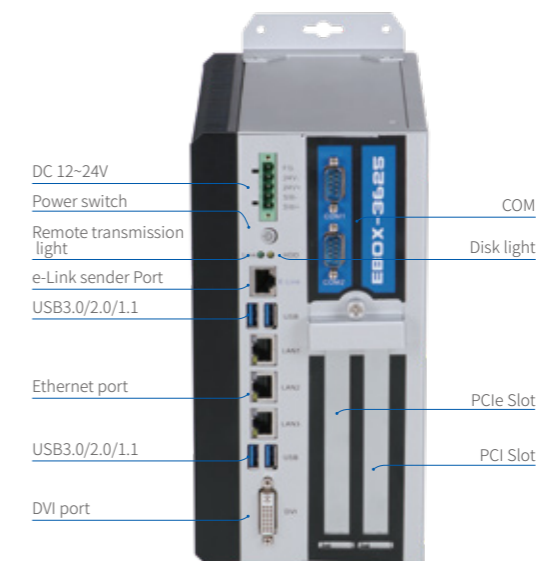
2x RS232/485
8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



DC12V~24V Power input
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



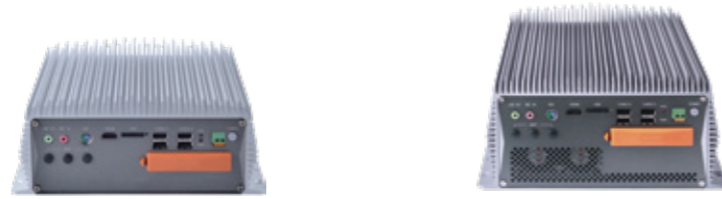
Fastening type SODIMM memory slot
To solve the industrial computer failure caused by poor contact in the vibration environment and transport process.



- DC 12-24V
- Power switch
- Remote transmission light
- e-Link sender Port
- USB3.0/2.0/1.1
- Ethernet port
- USB3.0/2.0/1.1
- DVI port
- COM
- Disk light
- PCIe Slot
- PCI Slot

eBOX-3625

eBOX-3000 SERIES



Model No.	eBOX-3000	eBOX-3000H
Processor	CPU	Intel® Core™ 6/7/8/9th generation i7 / i5 / i3 / Pentium® / Celeron®, LGA1151
	Chipset	Intel H110 Express Chipset
	BIOS	AMI UEFI 64M bit
Memory	Architecture	DDR4-2400MHz
	Capacity	Up to 32GB
	DIMM	2×260-pin SODIMM
Display	VGA	Up to 1920×1200
	DVI	Support 1920×1200
	HDMI	1920×1200
	Display	Yes, VGA + DVI + HDMI
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
Audio	Port	Optional
	Amplifier	N/A
I/O	COM	6×RS232(COM5~COM6 Optional RS-485)
	LPT	N/A
	USB	4×USB3.0/2.0/1.1, 4×USB2.0/1.1
Other	Digital IO	N/A
	WatchDog	255 seconds programmable
Expansion slot	MiniPCIe	2×full size PCIe with SIM holder
	PCIe & PCI	1×PCIe x16 slot or 1×32bits PCI
Storage Medium	HDD	1×2.5" HDD Bay (Max rate SATA III 6.0 Gb/s)
	SSD	1×MSATA
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Input voltage	DC 12~24V ±10%
	Minimum Input	12V/10A, 120W
	Power Adapter	Optional
Power Dissipation	No-load	27Watt
	Full-load	55Watt (According to the CPU set, total power not exceeding 100W)
Mechanism Parameters	Box structure	Aluminum alloy BOX
	Mounting	Support Desktop and Wall-mounted mounting
	Dimensions (L×W×H)	240mm×240mm×95mm (9.45"×9.45"×3.74") 242mm×240mm×117.73mm (9.53"×9.45"×4.64")
	Net weight	4.00kg (8.82lb) 4.6kg(10.14lb)
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC

eBOX-32XX SERIES



Model No.	eBOX-3230	eBOX-3231
Processor	CPU	Intel® Celeron® J1900
	Frequency	Quad core 2.0GHz
	L2 Cache	2MB
	Chipset	Intel Bay trail SOC
	BIOS	AMI UEFI 64Mbit
Memory	Architecture	DDR3L-1333MHz
	Capacity	Up to 8GB
	DIMM	1×SODIMM
Display	Graphics controller	Intel® HD Graphic Core
	Graphics engine	DirectX 9 and OpenGL3.0 support; Hardware Encode/Decode: MPEG2; Hardware Encode/Decode: H.264/VC1/MVC
	VGA	Up to 1920×1200
	DVI	N/A
	HDMI	Supports HDMI v1.3 up to 1080P, Max. data rate 1.65 Gb/s
LAN	LAN1	Realtek GbE LAN controller
	LAN2	Realtek GbE LAN controller
Audio	Port	Optional
	Amplifier	N/A
I/O	COM	COM1 (RS232/485 optional), COM2~6 (RS232) COM1, COM7~COM10 (RS232/485 optional) COM2~COM6, COM11, COM12 (RS232, COM12 built-in)
	LPT	N/A
	USB	1×USB3.0/2.0/1.1, 5×USB2.0/1.1
Other	Digital IO	8×GPIO
	WatchDog	0~255 seconds programmable
Expansion slot	MiniPCIe	1×full size PCIe with SIM holder
	PCIe & PCI	N/A
Storage Medium	HDD	1×2.5" HDD Bay (Max rate 300MB/s)
	SSD	1×full size mSATA SSD
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Input voltage	DC 12V ±10%
	Minimum Input	12V, 3A
	Power Adapter	AC to DC, DC 12V/5A, 60W (Optional)
Power Dissipation	No-load	15 Watt
	Full-load	31 Watt
Mechanism Parameters	Box structure	Hydronalium outer skin
	Mounting	D esktop m oun ting, W all m oun ting
	Dimensions (L×W×H)	234mm×150mm×60mm (9.21"×5.91"×2.36")
	Net weight	1.42kg (3.13lb) 1.50kg (3.31lb)
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC



Model No.	eBOX-3240	eBOX-3240-L2	eBOX-3240-C2
Processor	CPU	Intel® Celeron® J6412	
	Frequency	2.0GHz	
	L2 Cache	1.5MB	
Memory	Architecture	DDR4L-2666/2933/3200MHz	
	Capacity	Up to 32GB	
	DIMM	2×SODIMM	
Display	DP	Up to 4096×2160@30Hz	
	HDMI	Up to 4096×2160@30Hz	
	VGA	Up to 1920×1200@60Hz	
	Display	support dual screen synchronous or asynchronous	
LAN	LAN1-2	2×Realtek GbE LAN controller	
	LAN3-4	N/A	2×Intel GbE LAN controller N/A
Audio	Port	MIC-in, Line-out	
	Amplifier	N/A	
I/O	COM	4×RS232/485 (COM1-4), 2×RS232 (COM5-6)	
	LPT	N/A	2×CAN or 2×COM(RS232/485)
	USB	4×USB3.0, 2×USB2.0	
	Digital IO	N/A	
Other	WatchDog	255 seconds programmable	
	MiniPCIe	2× full size MiniPCIe with SIM holder	
Expansion slot	PCIe & PCI	N/A	
	M.2	1 x M.2 slot for 5G module with extensible USB protocol	
Storage Medium	HDD	1×SATA	
	SSD	1×M.2 Key-M Slot (SATA SSD, 2280)	
OS	OS	Windows 10 IoT, Linux	
Power	Type	AT	
	Input voltage	DC 12V ±10%	
	Minimum Input	12V, 3A	
	Power Adapter	AC to DC, DC 12V/5A, 60W (Optional)	
Power Dissipation	No-load	10W	
	Full-load	31W	
Mechanism Parameters	Box structure	Hydronalium outer skin	
	Mounting	Desktop mounting, Wall mounting	
	Dimensions (L×W×H)	234mm×150mm×60mm (9.21"×5.91"×2.36")	
	Net weight	1.8Kg	
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)	
	Storage Temperature	-40 ~ 80°C (-40~176°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	
	Safety Certification	CCC	

Model No.	eBOX-3250	
Processor	CPU	Intel® Core™ 6/7/8 th i7/i5/i3, Pentium® / Celeron® LGA1151 type CPU. Max.65W TDP
	Frequency	Intel® Core™ 10-11th i7/i5/i3 CPU type LGA1200 . Max.65W
	L2 Cache	AMI UEFI 64Mbit
Memory	Architecture	DDR4-2400MHz
	Capacity	Up to 32GB
	DIMM	2 × SO-DIMM Slot
Display	DP	N/A
	HDMI	Up to 4096×2160@30Hz
	VGA	N/A
	Display	N/A
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
	LAN3	Intel GbE LAN controller
Audio	Port	N/A
	Amplifier	N/A
I/O	COM	4×RS232/485(COM1-4), up to 6×COM(RS232/485)
	CAN	2 CAN bus (optional)
	USB	4×USB3.0, 2×USB2.0
Other Expansion slot	Digital IO	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)
	WatchDog	255 level programmable
Storage	MiniPCIe	1× Full-size PCIe Mini slot with SIM holde
	PCIe & PCI	N/A
Medium	M.2	1×M.2 Key-M Slot (NVME SSD, 2280)
	SSD	1×mSATA
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Input voltage	DC12-24V ±10%, overcurrent, overvoltage and polarity inverse protection
	Minimum Input	12V, 5A
	Power Adapter	Optional 60W/120W
Power Dissipation	No-load	15 Watt
	Full-load	35 Watt
Mechanism Parameters	Box structure	Aluminum-magnesium alloy box
	Mounting	Desktop mounting, Wall mounting
	Dimensions (L×W×H)	256mm×173mm×55.3mm (10.08"×6.81"×2.18")
	Net weight	2Kg
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC



Model No.	eBOX-3310	
Processor	CPU	Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U
	Frequency	Quad core 2.0GHz / Dual Core 1.8GHz / Quad core 2.0GHz / Dual Core 2.5GHz
	L2 Cache	1.5MB/2MB/2MB/3MB
	Chipset	Integrated PCH-LP
	BIOS	-
Memory	Architecture	DDR4-2400MHz / DDR4-2400MHz / DDR3L-1333MHz / DDR3L-1600MHz
	Capacity	Up to 16GB / Up to 16GB / Up to 8GB / Up to 8GB
	DIMM	1×SODIMM
Display	Graphics controller	-
	Graphics engine	-
	VGA	1920×1200 @ 60Hz or 2048×1152 @ 60Hz with reduced blanking
	DVI	1920×1200 @ 60Hz or 2048×1152 @ 60Hz with reduced blanking
	HDMI	N/A
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
Audio	Port	Optional
I/O	LPT	2×RS232/485 (Max to 6 from EasyBUS)
	USB	4×USB3.0/2.0/1.1
Other	Digital IO	16×GPIO(Optional)
	WatchDog	255 seconds programmable
Expansion slot	MiniPCIe	1×full size PCIe with SIM holder
	PCIe & PCI	N/A
Storage Medium	HDD	1×2.5" HDD Bay (Max. rate 300MB/s)
	SSD	1×full size mSATA SSD
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Input voltage	DC 12-24V ±10%
	Minimum Input	12V, 3A
	Power Adapter	AC to DC, DC 12V/5A, 60W (Optional)
	Power consumption	5-30W
Mechanism Parameters	Box structure	Aluminum-magnesium alloy BOX
	Mounting	Support Desktop,Wall-mounted and VESA mounting
	Dimensions (L×W×H)	297mm×184mm×50mm (11.69"×7.24"×1.97")
	Net weight	2.56KG
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class A
	Safety Certification	CCC



Model No.	eBOX-3560	
Processor	CPU	Intel® Celeron® J3355/J3355E
	Frequency	Dual core 2.0GHz
	L2 Cache	2MB
	Chipset	-
	BIOS	AMI UEFI 128Mbit
Memory	Architecture	DDR3L-1666MHz
	Capacity	Up to 8GB
	DIMM	1×SODIMM
Display	Display controller	Integrated graphics media accelerator
	HDMI	4096×2160@30Hz
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
I/O	Port	2×RS232(RS232/485 Optional)
	LPT	N/A
	USB	4×USB3.0/2.0/1.1
Other	Digital IO	N/A
	WatchDog	255 seconds programmable
Expansion slot	MiniPCIe	2× full size MiniPCIe with SIM holder
	PCIe & PCI	N/A
Storage Medium	SSD	1×full size mSATA SSD
OS	OS	Windows 10 64bit, Linux
Power	Type	AT
	Input voltage	DC 9~24V
	Minimum Input	12V, 3A
	Power Adapter	Optional
Power Consumption	No-load	15 Watt
	Full-load	31 Watt
Mechanism Parameters	Box structure	Aluminum alloy BOX
	Mounting	Din-rail
	Dimensions (L×W×H)	145mm x 145mm x 75mm (5.71" x 5.71" x 2.95")
	Net weight	1.6KG
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class A
Safety Certification		CCC



Model No.		eBOX-3622-H
Processor	CPU	Intel® Core™ 4th i7 / i5 / i3 / Pentium® / Celeron®, LGA1150
	Frequency	1.4GHz~3.3GHz
	L2 Cache	Up to 8MB
	Chipset	Intel H81
	BIOS	AMI UEFI 64Mbit
Memory	Architecture	DDR3-1066 / 1333 / 1600MHz (Only Ivy bridge can fit for 1600MHz)
	Capacity	Up to 16GB
	DIMM	2×SODIMM
Display	Graphics controller	-
	Graphics engine	-
	VGA	Up to 1920×1200
	DVI	Support 1920×1200
	HDMI	N/A
Display	Yes, VGA + DVI	
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
Audio	Port	Optional
	Amplifier	N/A
I/O	COM	6×RS232 COM (COM3~COM4 optional RS485, PIN9 optional +5V/+12V/RI)
	LPT	N/A
	USB	4×USB3.0/2.0/1.1, 2×USB2.0/1.1
Other	Digital IO	-
	WatchDog	Level 0~255 is programmable
Expansion slot	MiniPCIe	1×full size PCIe with SIM holder
	PCIe & PCI	1×32bits PCI slot + 1×PCIe×4 slot(option×16) / 2×32bits PCI slot / 1×PCIe×1 slot + 1×PCIe×16 slot
Storage Medium	HDD	1×2.5" HDD Bay (Max. rate 3Gb/s)
	SSD	1×mSATA
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Input voltage	DC 12V ±10%
	Minimum Input	12V, 6A
	Power Adapter	AC to DC, DC12V/10A, 120W
Power Consumption	No-load	27Watt
	Full-load	55Watt (depending on the CPU)
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel
	Mounting	Desktop mounting, Wall mounting
	Dimensions (L×W×H)	285mm×240mm×82mm (11.22"×9.45"×3.23")
	Net weight	4.7kg (10.36lb)
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC



Model No.		eBOX-3625
Processor	CPU	Intel® Core™ 6/7/8 th generation i7 / i5 / i3 / Pentium® / Celeron®, LGA1151, MAX TDP 65W
	Frequency	Intel H110 Express Chipset
	BIOS	AMI UEFI 64Mbit
Memory	Architecture	DDR4-2400MHz
	Capacity	Up to 32GB
	DIMM	2×260-pin SODIMM
eLINK port	e-LINK sender Port	Integrated display signal, USB signal, touch screen signal
Display	Graphics controller	-
	Graphics engine	-
	VGA	N/A
	DVI	Support 1920×1080
	HDMI	N/A
Display	N/A	
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
	LAN3	Intel GbE LAN controller
Audio	Port	N/A
	Amplifier	N/A
I/O	COM	2×RS232/485 selectable
	LPT	N/A
	USB	4×USB3.0/2.0
Other	Digital IO	N/A
	WatchDog	255 seconds programmable
Expansion slot	MiniPCIe	1×full size PCIe with SIM holder
	PCIe & PCI	1×PCIe×16 slot + 1×PCI
Storage Medium	HDD	N/A
	SSD	1×mSATA
OS	OS	Windows 10, Linux
Power	Type	AT
	Input voltage	DC 12~24V ±10%
	Minimum Input	12V/10A, 120W
	Power Adapter	Optional
Power Consumption	No-load	27Watt
	Full-load	55Watt (depending on the CPU)
Mechanism Parameters	Box structure	Aluminum alloy BOX
	Mounting	Support Desktop and Wall-mounted mounting
	Dimensions (L×W×H)	238mm×191.5mm×120mm
	Net weight	3.5KG
Environmental	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-40~176°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC

IPC615 SERIES IPC

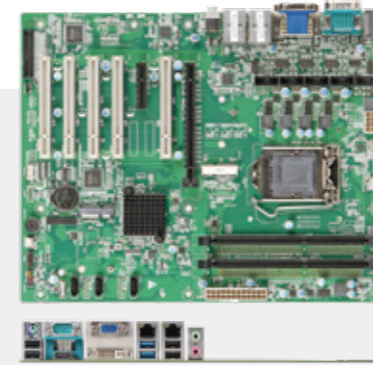
High-performance Rack-mount & Wall-mount IPC



IPC615 series industrial computer has flexibility, easy operation and unique design. It can run stably for a long time in harsh environments, and has the characteristics of dust-proof, moisture-proof, shock-proof, anti-electromagnetic interference and wide-voltage operation.

IPC615 series industrial computer based on the X86 architecture. It is a rack-mounted and wall-mounted industrial computer that supports ATX motherboards. It also provides multiple expansion slots which can expand various function cards and provide customized services. And widely used in industrial automation, self-service terminals, medical equipment, machine vision, communications, finance and other fields.

OS : Windows7, Windows10 and Linux.



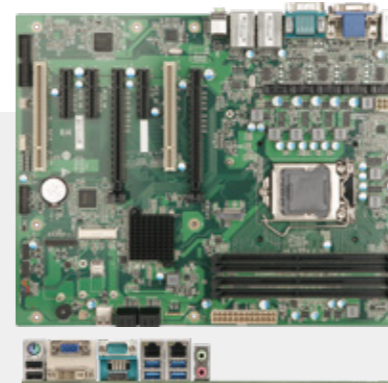
H81 Platform

Adapt to IPC-615H/615G2/615G1



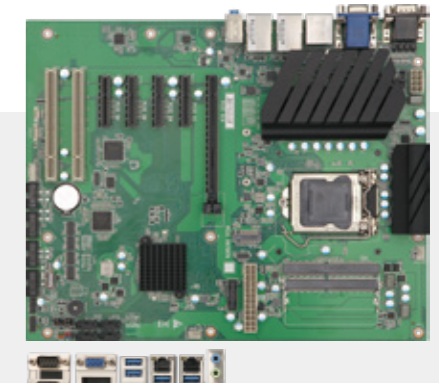
H110 Platform

Adapt to IPC-615H/615G2/615G1



C236 Platform

Adapt to IPC-615H/615G2/615G1



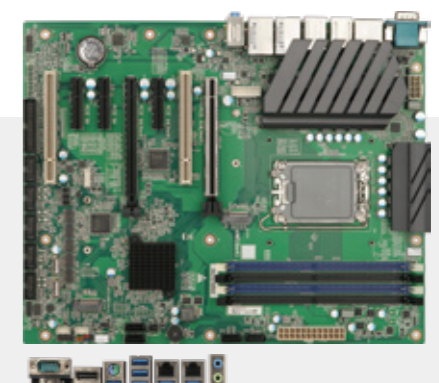
Q570 Platform

Adapt to IPC-615H/615G2



W580 Platform

Adapt to IPC-615H/615G2



W680 Platform

Adapt to IPC-615H/615G2

IPC615H SERIES Rack-mount IPC

4U, 19" standard Rack-mount IPC



IPC615H based on Intel Core i3/i5/i7 and Pentium, Celeron desktop processors. The standard 19"4U rack-mounted industrial chassis is designed with high-strength galvanized sheet, and the internal cooling air duct is designed with positive air pressure. It supports up to 7 expansion slots for various function cards. Supports multiple standard pull-out hard drives or DVD optical drive, integrated VGA/DVI/HDMI display interface, 2 Gigabit Ethernet, multiple USB2.0/3.0, built-in 1 USB2.0 dongle, 1 miniPCle expandable WIFI or 4G etc.

- OS : Windows7, Windows10 and Linux.



19-inch standard rack-mounted

Box structure by galvanized steel, double ball bearing fan and micro positive air circulation design.



Industrial fan-free switching power supply

To abandon the traditional industrial computer has been using commercial ATX power approach to enhance characteristics that wide temperature, dust and electrical protection.



Fastening type DIMM memory slot

To solve the industrial computer failure caused by poor contact in the vibration environment and transport process.



miniPCle

1 × miniPCle slot, can expand the functions of Wifi, 3G/4G, etc.



Clear indicator light at the front panel

There are power,system,network and COM indicator lights, it is Convenient for debugging and judging fault.



Flexible expansion slots

The internal design of 7 expansion slots. Multiple PCI and PCIE bus slot can be extended according to different mainboard.



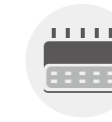
Fastened MSATA electronic disk slot

To avoid IPC failure caused by the use of mechanical hard drive in the vibration, high temperature and illegal power.



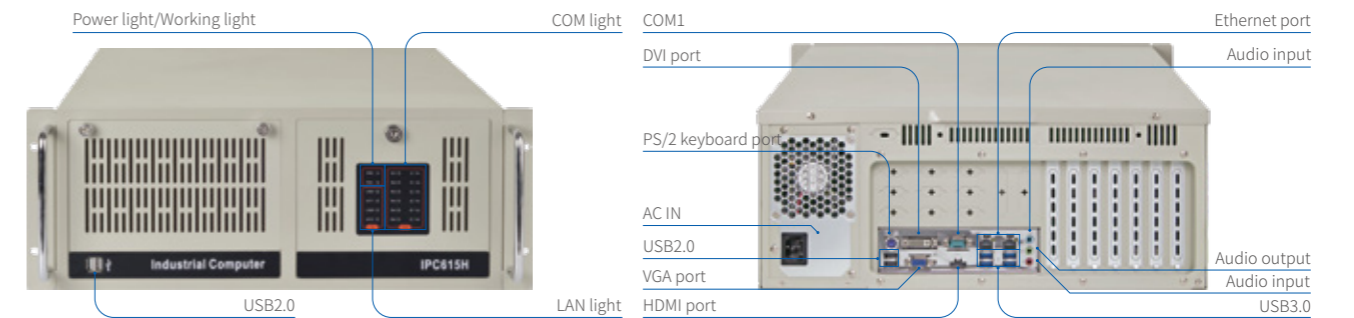
Software dongle design

Vertical USB interface is provided inside the machine to prevention of loss.



Serial port expansion

Reserve multiple serial ports for expansion.



IPC615H SERIES Rack-mount IPC



Model No.	IPC-615H-H81	IPC-615H-H110	IPC-615H-C236
Processor	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI UEFI 128Mbit
Memory	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
	Capacity	up to 16GB	up to 32GB
	DIMM	2 × U-DIMM Slot	2 × SO-DIMM Slot
Display	DVI	Resolution up to 1920×1200@60Hz	-
	VGA	Resolution up to 1920×1200@60Hz	Resolution up to 1920×1200@60Hz
	HDMI	Resolution up to 4096×2160@30Hz	Resolution up to 4096×2160@30Hz
	DP × 2	-	Resolution up to 4096×2160@30Hz
	Display	Yes, VGA + HDMI + DVI (asynchronous dual display)	Yes, VGA + HDMI + DP
LAN	LAN1	Intel GbE LAN controller	
	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in, Spk-out (Select)	MIC-in, Line-in, Line-out
I/O	COM	1×RS232/422/485(Default), 5×RS232(Select)	2×RS232/422/485(Default), 4×RS232(Select)
	PS2	1×PS2 Port (Keyboard & Mouse)	-
	USB	2×USB3.0, 6×USB2.0	4×USB3.0, 4×USB2.0
Other	GPIO	8×Programmable GPIO	8×Programmable GPIO
	WatchDog	0~255 seconds programmable	
Expansion slot	PCIe	1×PCIe×16 slot, 1×PCIe×4 slot (x1 signal)	1×PCIe×16 slot, 1×PCIe×4 slot
	PCI	5×32bits PCI slot	5×32bits PCI slot
	miniPCIe	1×mini PCIe (expansion WIFI/4G)	-
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
	SSD	1×full size mSATA SSD	1×full size mSATA SSD
	DVD	1×5.25" DVD-RW	
OS	OS	Windows 7, Windows 10, Linux	
Power	Type	ATX	
	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel	
	Mounting	19-inch standard rack-mounted	
	Dimensions	481mm×430mm×177mm (18.9"×16.9"×6.9")	
	Net weight	9.62kg (21.21lb)	
Environmental	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	



Model No.	IPC-615H-Q570	IPC-615H-W580	IPC-615H-W680
Processor	CPU	Support 10-11th Generation, LGA1200	Support 10-11th Generation, LGA1200
	Chipset	Intel® Q570	Intel® W580
	BIOS	AMI UEFI 256Mbit	AMI UEFI 256Mbit
Memory	Architecture	Support DDR4-2666/3200MHz	Support DDR4-2133/2400/2666/2933/3200MHz
	Capacity	up to 64GB	up to 128GB
	DIMM	2 × SO-DIMM Slot	4 × U-DIMM Slot
Display	DVI	-	
	VGA	Resolution up to 1920×1200@60Hz	-
	HDMI	Resolution up to 1920×1200@60Hz	Resolution up to 4096×2160@30Hz
	DP × 2	Resolution up to 4096×2160@30Hz	Resolution up to 4096×2160@30Hz
	Display	Yes, VGA + DP + HDMI	Yes, DP + DP + HDMI
LAN	LAN1	Intel GbE LAN controller	
	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in, Line-in, Line-out	
I/O	COM	2×RS232/422/485 (Default), 4×RS232 (Select)	1×RS232/422/485 (Default), 1×RS232/422/485, 4×RS232 (Select)
	PS2	-	
	USB	6×USB3.0, 2×USB2.0	10×USB3.0, 2×USB2.0 (Built-in dongle)
Other	GPIO	-	
	WatchDog	0~255 seconds programmable	
Expansion slot	PCIe	1×PCIe×16 slot, 4×PCIe×4 slot (one x1 signal)	2×PCIe×16 slot, 4×PCIe×4 slot (one x1 signal)
	PCI	2×32bits PCI slot	1×32bits PCI slot
	miniPCIe	-	
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
	SSD	1×M.2 (NGFF) Key-M Slot (11th support NVMe)	1×M.2 (NVMe 11th CPU support/ SATA SSD) Key-M Slot
	DVD	1×5.25" DVD-RW	
OS	OS	Windows 10, Linux	
Power	Type	ATX	
	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel	
	Mounting	19-inch standard rack-mounted	
	Dimensions	481mm×430mm×177mm (18.9"×16.9"×6.9")	
	Net weight	9.62kg (21.21lb)	
Environmental	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	

IPC615G2 SERIES Wall-mount IPC

Desktop & Wall-mount high-performance IPC



Rugged galvanized steel chassis

Box structure by galvanized steel, double ball bearing fan and micro positive air circulation design.



Flexible expansion slots

Option 7 expansion slots for PCI and PCIe card.



Offer different power supplier optional

To abandon the traditional industrial computer has been using commercial ATX power approach to enhance characteristics that wide temperature, dust and electrical protection.



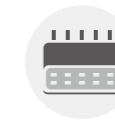
Internal USB dongle port

Vertical USB interface is provided inside the machine to prevention of loss.



Remote power ON/OFF

Reserved PS-ON terminal on the front/rear panel (only one available).



Reserved series port space

Reserve multiple serial ports for expansion.

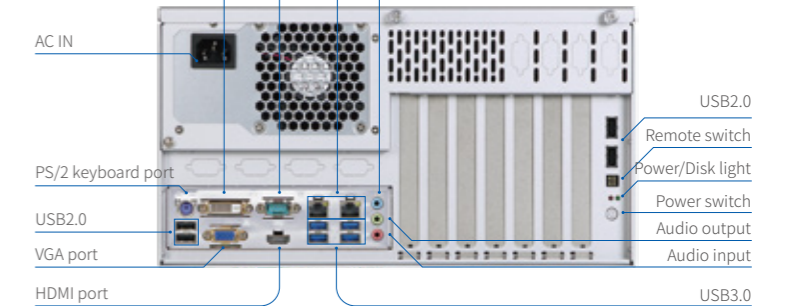
IPC615G2 based on Intel Core i3/i5/i7, Pentium and Celeron desktop processors. The chassis is designed with high-strength galvanized sheet, and the internal cooling air duct is designed with positive air pressure. It supports up to 7 expansion slots for various function cards, the front and rear panels can be installed with remote switch terminals (only one available), which is convenient for operation. It also Integrated VGA/DVI/HDMI, 2 Gigabit Ethernet, multiple USB2.0/3.0, built-in 1 USB2.0 dongle, 1 miniPCIe, expandable WIFI/4G etc.

- OS : Windows7, Windows10 and Linux.

Remote switch
USB2.0
Power/Disk light
Power switch



COM1
DVI port
AC IN
PS/2 keyboard port
USB2.0
VGA port
HDMI port
Ethernet port
Audio input
USB2.0
Remote switch
Power/Disk light
Power switch
Audio output
Audio input
USB3.0



IPC615G2 SERIES Wall-mount IPC



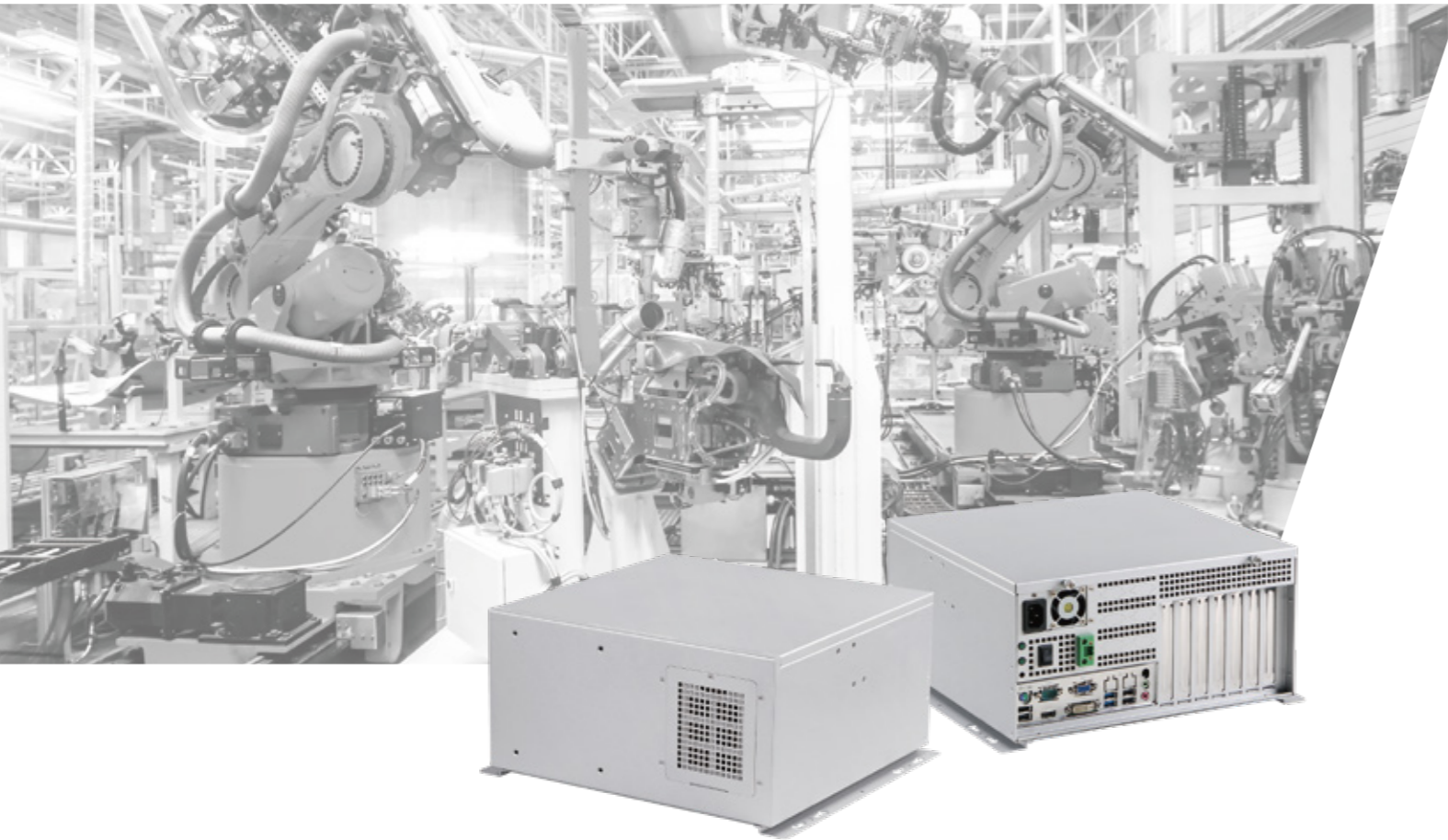
Model No.	IPC-615G2-H81	IPC-615G2-H110	IPC-615G2-C236
Processor	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI UEFI 128Mbit
Memory	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
	Capacity	up to 16GB	up to 32GB
	DIMM	2× U-DIMM Slot	2× SO-DIMM Slot
Display	DVI	Resolution up to 1920×1200@60Hz	-
	VGA	Resolution up to 1920×1200@60Hz	Resolution up to 1920×1200@60Hz
	HDMI	Resolution up to 4096×2160@30Hz	Resolution up to 4096×2160@30Hz
	DP×2	-	Resolution up to 4096×2160@30Hz
	Display	Yes, VGA+HDMI+DVI (asynchronous dual display)	Yes, VGA+HDMI+DP
LAN	LAN1	Intel GbE LAN controller	
	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in, Spk-out (Select)	MIC-in, Line-in, Line-out
I/O	COM	1×RS232/422/485(Default), 5×RS232(Select)	2×RS232/422/485(Default), 4×RS232(Select)
	PS2	1×PS2 Port (Keyboard & Mouse)	-
	USB	2×USB3.0, 6×USB2.0	4×USB3.0, 4×USB2.0
Other	GPIO	8×Programmable GPIO	8×Programmable GPIO
	WatchDog	0~255 seconds programmable	
Expansion slot	PCIe	1*PCIe×16 slot, 1*PCIe×4 slot (x1 signal)	1*PCIe×16 slot, 1*PCIe×4 slot
	PCI	5×32bits PCI slot	5×32bits PCI slot
	miniPCIe	1×mini PCIe (expansion WIFI/4G)	1×mini PCIe (expansion WIFI/4G)
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
	SSD	1×full size mSATA SSD	1×full size mSATA SSD
	DVD	-	
OS	OS	Windows 7, Windows 10, Linux	
Power	Type	ATX	
	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel	
	Mounting	19" s tandard rack-mount IPC	
	Dimensions	370mm×326mm×180mm (14.6"×12.8"×7.1")Without stand	
	Net weight	-	
Environmental	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	



Model No.	IPC-615G2-Q570	IPC-615G2-W580	IPC-615G2-W680
Processor	CPU	Support 10-11th Generation, LGA1200	Support 10-11th Generation, LGA1200
	Chipset	Intel® Q570	Intel® W580
	BIOS	AMI UEFI 256Mbit	AMI UEFI 256Mbit
Memory	Architecture	Support DDR4-2666/3200MHz	Support DDR4-2133/2400/2666/2933/3200MHz
	Capacity	up to 64GB	up to 128GB
	DIMM	2× SO-DIMM Slot	4× U-DIMM Slot
Display	DVI	-	
	VGA	Resolution up to 1920×1200@60Hz	-
	HDMI	Resolution up to 1920×1200@60Hz	Resolution up to 4096×2160@30Hz
	DP×2	Resolution up to 4096×2160@30Hz	Resolution up to 4096×2160@30Hz
	Display	Yes, VGA+DP+HDMI	Yes, DP+DP+HDMI
LAN	LAN1	Intel GbE LAN controller	
	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in, Line-in, Line-out	
I/O	COM	2×RS232/422/485 (Default), 4×RS232 (Select)	1×RS232/422/485 (Default), 1×RS232/422/485, 4×RS232 (Select)
	PS2	-	
	USB	6×USB3.0, 2×USB2.0	10×USB3.0, 2×USB2.0(Built-in dongle)
Other	GPIO	-	
	WatchDog	0~255 seconds programmable	
Expansion slot	PCIe	1*PCIe×16 slot, 4*PCIe×4 slot (one x1 signal)	2*PCIe×16 slot, 4*PCIe×4 slot (one x1 signal)
	PCI	2×32bits PCI slot	1×32bits PCI slot
	miniPCIe	-	
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
	SSD	1×M.2 (NGFF) Key-M Slot (11th support NVMe)	1×M.2 (NVMe 11th CPU support/ SATA SSD) Key-M Slot
	DVD	-	
OS	OS	Windows 7, Windows 10, Linux	
Power	Type	ATX	
	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel	
	Mounting	19" s tandard rack-mount IPC	
	Dimensions	370mm×326mm×180mm (14.6"×12.8"×7.1")Without stand	
	Net weight	-	
Environmental	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	

IPC615G1 SEREIES Wall-mount IPC

Desktop & Wall-mount high-performance IPC



IPC615G1 based on Intel Core i3/i5/i7, Pentium and Celeron desktop processors. The chassis is designed with high-strength galvanized sheet, and the internal cooling air duct is designed with positive air pressure. It supports up to 7 expansion slots for various function cards., the front and rear panels can be installed with remote switch terminals (only one can be selected), which is convenient for clients to add operation buttons on the cabinet panel. Integrated VGA/DVI/HDMI, 2 Gigabit Gans, multiple USB2.0/3.0, built-in 1 USB2.0 dongle, 1 miniPCIe, expandable WIFI/4G etc.

- OS : Windows7, Windows10 and Linux.



Rugged galvanized steel chassis

Box structure by galvanized steel, double ball bearing fan and micro positive air circulation design.



Offer different power supplier optional

To abandon the traditional industrial computer has been using commercial ATX power approach to enhance characteristics that wide temperature, dust and electrical protection.



Remote power ON/OFF

Reseved PS-ON terminal on the front/rear panel (only one available).



Flexible expansion slots

Option 7 expansion slots for PCI and PCIe card.



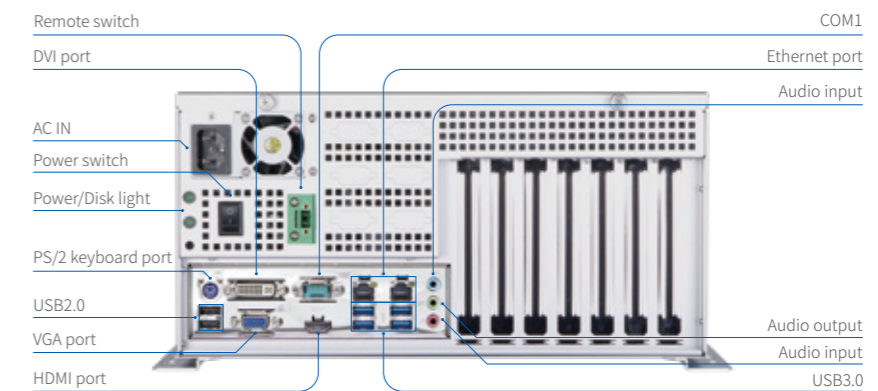
Internal USB dongle port

Vertical USB interface is provided inside the machine to prevention of loss.



Reserved series port space

Reserve multiple serial ports for expansion.



IPC615G1 SERIES Wall-mount IPC



Model No.	IPC-615G1-H81	IPC-615G1-H110	
Processor	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI EFI 128Mbit
Memory	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
	Capacity	up to 16GB	up to 32GB
	DIMM	2×U-DIMM Slot	2×SO-DIMM Slot
Display	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	-
	VGA	Supports max resolution up to 1920×1200@60Hz	Supports max resolution up to 1920×1200@60Hz
	HDMI	Supports max resolution up to 4096×2160@30Hz	Supports max resolution up to 4096×2160@30Hz
	DP×2	-	Supports max resolution up to 4096×2160@30Hz
	Display	Yes, VGA + HDMI + DVI(asynchronous dual display)	Yes, VGA + HDMI + DP
LAN	LAN1	Intel GbE LAN controller	
	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in,Line-out (Select)	MIC-in, Line-in, Line-out
I/O	COM	1×RS232 / 422 / 485 (Default), 5×RS232 (Select)	2×RS232/422/485(Default), 4×RS232(Select)
	PS2	1×PS2 Port (Keyboard & Mouse)	-
	USB	2×USB3.0, 4×USB2.0	4×USB3.0, 2×USB2.0
Other	GPIO	8×Programmable GPIO	-
	WatchDog	0~255 seconds programmable	
Expansion slot	PCIe	1×PCIe×16 slot, 1×PCIe×4 slot (X1 signal)	1×PCIe×16 slot, 1×PCIe×4 slot
	PCI	5×32bits PCI slot	5×32bits PCI slot
	miniPCIe	1×mini PCIe (expansion WIFI/4G)	-
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
	SSD	1×full size mSATA SSD	
	DVD	-	
OS	OS	Windows 7, Windows 10, Linux	
Power	Type	1U FLEX	
	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 250W power)	
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel	
	Mounting	Mounting 19" s tandard rack-mount IPC	
	Dimensions	350mm×317mm×160mm (13.8"×12.5"×6.3")Without stand	
	Net weight	-	
Environmental	Work Temperature	0 ~ 45°C (32~113°F)	
	Storage Temperature	-20 ~ 60°C (-4~140°F)	
	Relative humidity	5 ~ 95% (Non-condensation)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B	

Model No.	IPC-615G1-C236	
Processor	CPU	Support 6-9th Generation, LGA1151
	Chipset	Intel® C236
	BIOS	AMI UEFI 128Mbit
Memory	Architecture	Support DDR4-2400/2666MHz
	Capacity	up to 64GB
	DIMM	4×U-DIMM Slot
Display	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz
	VGA	Supports max resolution up to 1920×1200@60Hz
	HDMI	Supports max resolution up to 4096×2160@30Hz
	DP×2	-
	Display	Yes, VGA + HDMI + DVI
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
Audio	Port	MIC-In, Speaker-Out, Line-In
I/O	COM	1×RS232(Default), 3×RS232, 1×RS232 / 422 / 485, 1×RS232 / 485(Select)
	PS2	1×PS2 Port (Keyboard & Mouse)
	USB	4×USB3.0, 2×USB2.0
Other	GPIO	8×Programmable GPIO
	WatchDog	0~255 seconds programmable
Expansion slot	PCIe	2*PCIe x16 slot(x8 signal) , 3*PCIe x4 slot(one x1 signal)
	PCI	2×32bits PCI slot
	miniPCIe	1×mini PCIe (expansion WIFI/4G)
Storage Medium	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay
	SSD	1×2280 size M.2(SATA协议)
	DVD	-
OS	OS	Windows 10, Linux
Power	Type	1U FLEX
	Power Adapter	AC 180~264V
	Power Dissipation	Depending on the CPU (Default built-in 250W power)
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel
	Mounting	Mounting 19" s tandard rack-mount IPC
	Dimensions	350mm×317mm×160mm (13.8"×12.5"×6.3")Without stand
	Net weight	-
Environmental	Work Temperature	0 ~ 45°C (32~113°F)
	Storage Temperature	-20 ~ 60°C (-4~140°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B

IPC615G Wall-mount IPC

Desktop & Wall-mount high-performance IPC



IPC615G based on Intel Core 6/7/8/9 generation i7/i5/i3, Pentium and Celeron LGA1151 desktop processors, 2 SODIMM slots support up to 32GB memory, with 1 Mini SATA interface and 1 2.5" HDD storage socket slot; VGA/HDMI supports synchronous or asynchronous dual display. Equipped with rich I/O interfaces, 2 Gigabit Lan, 4 USB3.0/2.0/1.1, built-in 1 USB2.0, 2 RS232 or RS485 and also provides 2 PCI and 2 PCIe expansion slots which is convenient to expand a variety of function cards.

- OS: Windows7, Windows10 and Linux.



Rugged galvanized steel chassis

Box structure by galvanized steel, double ball bearing fan and micro positive air circulation design.



Flexible expansion slots

Option 4 expansion slots for PCI and PCIe card.



Offer different power supplier optional

To abandon the traditional industrial computer has been using commercial ATX power approach to enhance characteristics that wide temperature, dust and electrical protection.



Internal USB dongle port

Vertical USB interface is provided inside the machine to prevention of loss.



2 x RS232, 2 x RS232/485

8KV electrostatic protection, 600W TVS surge protection protection, RS485 support automatic data flow control.



IPC615G Wall-mount IPC



Model No.	IPC615G	
Processor	CPU	Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium®/Celeron® LGA1151 type CPU. Max.65W TDP
	Chipset	Intel® H110
	BIOS	AMI UEFI 128M bit
Memory	Architecture	DDR4-2400 MHZ
	Capacity	up to 32GB
	DIMM	2× 260-pin SODIMM
Display	Graphic Controller	-
	VGA	Up to 1920×1200
	HDMI	Support 1920×1200
	Display	Yes, VGA + HDMI
LAN	LAN1	Intel GbE LAN controller
	LAN2	Intel GbE LAN controller
Audio	Port	Optional
I/O	COM	2× RS232 (RS232 or RS485), 2× RS232 (select)
	LPT	N/A
	PS2	N/A
	USB	4× USB3.0/2.0/1.1, built-in 1× USB2.0, 2× USB2.0 (select)
Other	GPIO	Optional
	WatchDog	0~255 seconds programmable
Expansion slot	PCIe	1*PCIe x4 slot + 1*PCIe x16 slot
	PCI	2× 32bits PCI slot
Storage Medium	HDD	1× 2.5" HDD Bay
	SSD	1× full size mSATA SSD
	DVD	N/A
OS	OS	Windows 7, Windows 10, Linux
Power	Type	AT
	Power Adapter	AC 90~132V/180~264V/DC 240~370V
	Power Dissipation	Depending on the CPU (Default built-in 350W power, Select 500W)
Mechanism Parameters	Box structure	Hot dip galvanized sheet steel shel
	Mounting	Desktop mounting, Wall mounting
	Dimensions	298.5mm×270mm×151.5mm(11.8"×10.6"×6.0")
	Net weight	5.50kg
Environmental	Work Temperature	0 ~ 50°C (32~122°F)
	Storage Temperature	-20 ~ 70°C (-4~158°F)
	Relative humidity	5 ~ 95% (Non-condensation)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class B
	Safety Certification	CCC

Our Value

- We endeavor ourselves to Industrial product design, produce, maintain and service support, and not be involved with competition with our customers on the market.
- Offering X86 and ARM based platforms and adhering to provide customers with industrial and military grade products.
- Following up the market application and technical needs of innovation continuously, and supply the high-quality product and service, to grow with our partners together.
- More than 7 years of product life cycle to ensure long-term supply of customer products, and gradually increase the product life cycle up to 10 years.
- Providing free lifecycle maintenance for customers, including OS upgrades, bug fixes and product tracking, technical consulting and support services.
- Continuously cultivate R&D and field technical engineers team, accumulate field application experience, and continuously improve capability of troubleshoot and problem solving.



NP Series Control Cabinet Industrial PC

High performance, Extremely space-saving and Flexible



The NP series of ultra-compact scalable Industrial PC combines maximum computing power in which is the most compact format with a wide range of options for installation in the control cabinet. It is ideally suited for Machine Vision, Motion Control, Robots and Smart Gateway application, some scalable IO boards have been developed for these automation control industry.

The NP series based on the latest Intel processor, in different performance from Intel Celeron quad-core to Core i7 with 8 cores, it used NODKA COMLAC Inside design, which offer maximum scalability and upgrade to the latest processor but without any chassis change, it is a popular product with an optimal price-performance ratio.

The NP series can work well with INtime, VxWorks, RTX, EC-Win and Linux system, optimized all of the BIOS settings.

NP-6111 Series

NP-6113 Series

NP-61X2 Series

NP-61X3 Series

NP-61X5 Series



NP-6111 SERIES

Ultra-compact Control Cabinet Fanless Industrial PC with Low-power consumption processor



Based on Intel® Celeron® / Intel Atom® processor, include various interfaces for industry application, such as 2 Intel Gigabit Ethernet which support Ether-CAT and Jumbo frames, 1 USB 3.0 and 3 USB 2.0, as well as 1 USB inside for dangle, 2 optical electrical isolation RS232/485, and option other PCI express, USB and COM ports for expansion, in order to meet most of requirements for special applications.

- NP-6111 series widely used in Motion Control, Smart Gateway, Instrument Data terminal, Machine Vision and other automation control application.



Compact design with rugged aluminum alloy housing

Book style with ultra-compact, sealed housing with fanless design.



CPU and memory modular design

Celeron core module configuration for product maintenance and upgrades.



No cable design

Using high quality connector between the boards, reliability and stability for no cable connection design.



Wide voltage power supply: DC12V~24V

DC12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Fanless Design

Fanless design but working temperature is -20 to 60°C.



2×RS232/485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



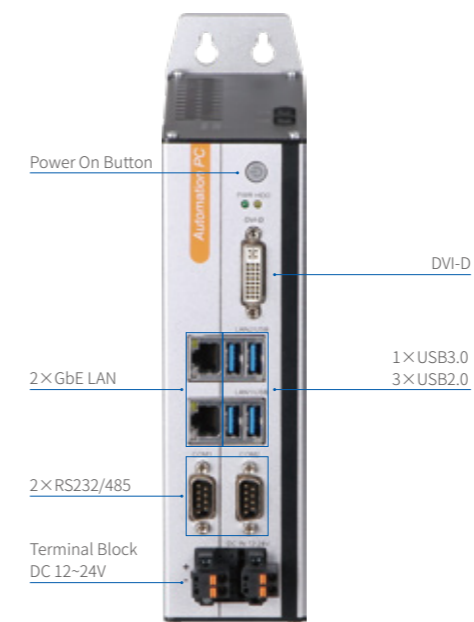
Extremely space-saving and Flexible

Flexible for CAN Bus, PoE LAN, Digital IO, Light source control and additional LAN port expansion.



Flexible mounting

Book style with wall mounting, option Din-rail mounting so that the user can easily move the PC into the optimal position.



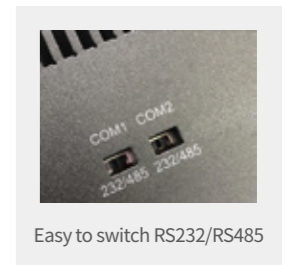
NP-6111



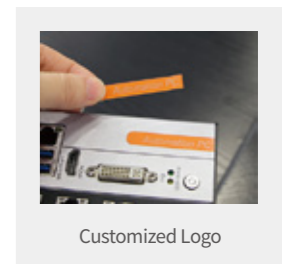
miniPCIe Expansion Slot



Internal USB2.0 for USB Dongle



Easy to switch RS232/RS485



Customized Logo



NP-6111 SERIES



Model No.	NP-6111	NP-6111-L2	NP-6111-JH2	
System	CPU	Intel® Celeron® J1900 / J3455 / J6412		
	CPU specification	2.0GHz, 4 cores, 4threads, 2MB L2 cache / 1.5~2.3GHz, 4 cores, 4threads, 2MB L2 cache / 2.0~2.6GHz, 4 cores, 4 threads, 1.5MB L2 cache		
	TDP	10W		
	BIOS	AMI UEFI 64Mbit		
	Memory	J1900/J3455: 1×SO-DIMM DDR3L-1333MHz, (Max. 8GB) / J6412: 1×SO-DIMM DDR4-2400MHz(Max. 16GB)		
	Storage	1× mSATA bay		
I/O	USB	4×USB, 1×USB2.0 Type A on the board for USB dongle		
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
	Ethernet	2×Intel GbE LAN controller	4×Intel GbE LAN controller	2×Intel GbE LAN controller
	PoE	-	-	2×Intel GbE PoE LAN controller, max. 15W per channel
	DI	-	-	8×DI NPN/PNP, isolated 3750Vrms
	DO	-	-	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750Vrms
	CAN	-	-	-
	Light Control	-	-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel
	Display	DVI-D	Support up to 1920×1080	
Audio	Line-out	-		
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 7, Windows 7 Embedded, Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 45W	Max. 45W	Max. 120W
Chassis	Structure	Aluminum-magnesium alloy box, Fanless, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm
	Net Weight	1.6Kg	1.8Kg	2.1Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



NP-6111-JH2B	NP-6111-JH3	NP-6111-JH4
Intel® Celeron® J1900 / J3455 / J6412		Intel® Celeron® J1900 / J3455
2.0GHz, 4 cores, 4threads, 2MB L2 cache / 1.5~2.3GHz, 4 cores, 4threads, 2MB L2 cache / 2.0~2.6GHz, 4 cores, 4 threads, 1.5MB L2 cache		
10W		
AMI UEFI 64Mbit		
J1900/J3455: 1×SO-DIMM DDR3L-1333MHz, (Max. 8GB) / J6412: 1×SO-DIMM DDR4-2400MHz(Max. 16GB)		
1× mSATA bay		
4×USB, 1×USB2.0 Type A on the board for USB dongle	8×USB, 1×USB2.0 Type A on the board for USB dongle	4×USB, 1×USB2.0 Type A on the board for USB dongle
2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232	2×RS232/RS485, 8×RS485(Phoenix Contators), RS485 support auto flow control, ESD protection for RS232
2×Intel GbE Ethernet		
2×Intel GbE PoE LAN controller, max. 15W per channel	-	-
16×DI NPN/PNP, isolated 3750 Vrms	8×DI NPN/PNP, isolated 3750 Vrms	8×DI NPN/PNP, isolated 3750 Vrms
16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	4×Relay DO, Normally Open, 30VDC(I _{max} : 1.0A)/60VDC(I _{max} : 0.3A)/125VAC(I _{max} : 0.5A)
-	2× isolated CAN Bus 2.0 A/B	-
Support up to 1920×1080		
-		
1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
1~255 levels programmable		
Windows 7, Windows 7 Embedded, Windows 10 IoT		
Ubuntu, CentOS, Debian		
DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
Max. 80W	Max. 60W	Max. 45W
Aluminum-magnesium alloy box, Fanless, Wall-mounted or DIN-Rail		
200mm×154.5mm×74.6mm		
2.1Kg		
-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
5~95%(Non-condensing)		
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
CE/FCC Class A		

NP-6113 SERIES

Ultra-compact Control Cabinet Fanless Industrial PC with Low-power consumption processor



LAN
2×Intel® Gigabit ports
1×RTL8111H Gigabit ports



COM
1×RS232/RS485, RS485 support auto flow control,
1×RS232



Display
VGA and HDMI display port



Option different I/O ports and accept customized
Option different I/O board and ports
Easy to change customized logo.



USB
2×USB3.0, 2×USB2.0,
1×USB2.0 Type A onboard for dongle



miniPCIe
2×miniPCIe slot for Wifi, 3G/4G



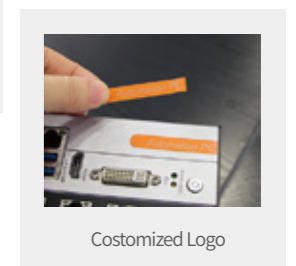
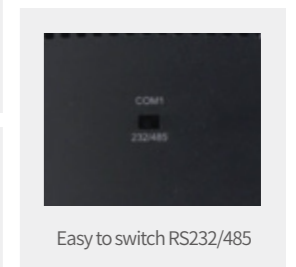
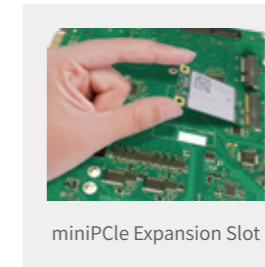
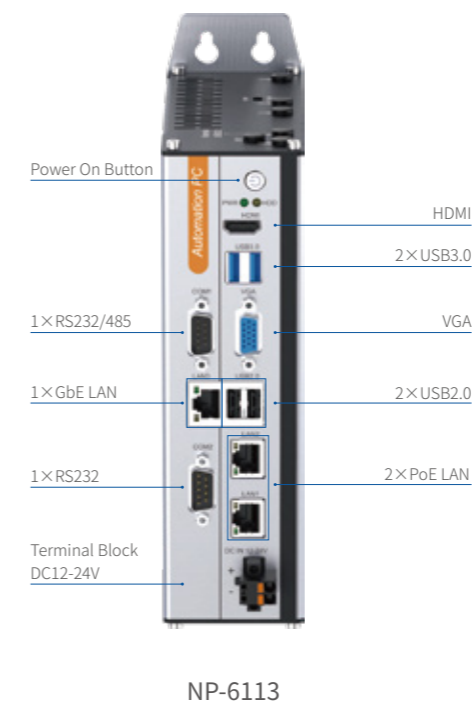
Wide voltage power supply: DC12V~24V
DC12V power input, optional DC24V, with surge power,
over voltage and reverse polarity protection,
with phoenix terminal contact.



Perfect cooling system design
Fully enclosed structure, fanless, cable-free design.
Working temperature: -20°C~60°C

Based on Intel® Celeron® J6412 processor, include various interfaces for industry application, such as 2 Intel® GbE PoE LAN controller ,1 RTL8111H GbE LAN controller which support EtherCAT and Jumbo frames, 2 USB 3.0 and 2 USB 2.0, as well as 1 USB inside for dangle, 2 optical electrical isolation RS232/485, and option other PCI express, USB and COM ports for expansion, in order to meet most of requirements for special applications.

- NP-6113 series widely used in Motion Control, Smart Gateway, Instrument Data terminal, Machine Vision and other automation control application.



NP-6113 SERIES



Model No.	NP-6113	
System	CPU	Intel® Celeron J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache
	TDP	10W
	BIOS	AMI UEFI 64Mbit
	Memory	1×SO-DIMM DDR4-2400MHz(max. 32GB)
	Storage	1×mSATA bay
I/O	USB	2×USB3.0, 2×USB2.0, 1×USB2.0 Type A on the board for USB dongle
	COM	1×RS232/485, , selectable to support RS232 or RS485 mode by the switch,, 1×RS232
	Ethernet	1×RTL8111H GbE LAN controller
	PoE	2×Intel® GbE PoE LAN controller
	DI	-
	DO	-
	Light Control	-
Display	VGA	Support up to 1920×1080 @60Hz
	HDMI	Support up to 3840×2160 @60Hz
Audio	Line-out	-
Expansions	Expansions	2×Full-size PCIe Mini slot with SIM card holder(with USB signal)
Other	Watch Dog	1~255 levels programmable
	Remote Switch	1×Remote switch
OS	Windows	Windows 7, Windows 7 Embedded, Windows 10 IoT
	Linux	Ubuntu, CentOS, Debian
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection
	Power Consumption	Max. 90W
Chassis	Structure	Aluminum-magnesium alloy box, Fanless, Wall-mounted or DIN-Rail
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm
	Net Weight	1.9kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)
	Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F) with air flow (SSD)
	Relative Humidity	5~95%(Non-condensing)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
	EMC	CE/FCC Class A



Model No.	NP-6113-MVS	NP-6113-16I16O	
System	CPU	Intel® Celeron J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache	
	TDP	10W	
	BIOS	AMI UEFI 64Mbit	
	Memory	1×SO-DIMM DDR4-2400MHz(max. 32GB)	
	Storage	1×mSATA bay	
I/O	USB	2×USB3.0, 2×USB2.0, 1×USB2.0 Type A on the board for USB dongle	
	COM	1×RS232/485, , selectable to support RS232 or RS485 mode by the switch,, 1×RS232	
	Ethernet	1×RTL8111H GbE LAN controller	
	PoE	2×Intel® GbE PoE LAN controller	
	DI	8×DI	16×DI NPN/PNP
	DO	8×DO, I _{max} . 500mA	16× DO NPN/PNP, I _{max} . 500mA
	Light Control	4×Light PWM control	-
Display	VGA	Support up to 1920×1080 @60Hz	
	HDMI	Support up to 3840×2160 @60Hz	
Audio	Line-out	-	
Expansions	Expansions	2×Full-size PCIe Mini slot with SIM card holder(with USB signal)	
Other	Watch Dog	1~255 levels programmable	
	Remote Switch	1×Remote switch	
OS	Windows	Windows 7, Windows 7 Embedded, Windows 10 IoT	
	Linux	Ubuntu, CentOS, Debian	
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)	
	Power Consumption	Max. 230W	Max. 90W
Chassis	Structure	Aluminum-magnesium alloy box, Fanless, Wall-mounted or DIN-Rail	
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	
	Net Weight	1.9kg	
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)	
	Storage Temperature	-40°C ~ 80°C (-40°F ~ 176°F) with air flow (SSD)	
	Relative Humidity	5~95%(Non-condensing)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class A	

NP-6122/NP-6132 SERIES

Ultra-compact Control Cabinet Industrial PC with High performance processor



NP-6122/NP-6132 series is a high performance book style Industrial PC which use for Automation and Machine Vision industry. It is a COMLAC design which include courier board, CPU board and option different IO boards, equipped with the latest Intel® Core™ i3, i5, i7 and Pentium® processor, COMLAC design means offer maximum scalability and upgrade to the latest processor but without any chassis change. There are 2 Intel gigabit LAN ports, 2 RS232/485 ports, option DVI-D and HDMI display port, 4 USB 3.0 ports at the courier board, and an internal USB2.0 port for USB dongle, DC12~24V power input. Accept customized service for IO board in order to meet the various hardware requests, all of the IO ports are located in one side, it is convenient for wiring and maintenance. Rugged aluminum alloy and sealed housing, build in separately fan space, both make the product more reliable.

NP-6122/NP-6132 is widely used for 3C, pharmaceutical machinery, packaging machinery, automatic checkout test equipment, robots, motion control, intelligent transportation and other fields.



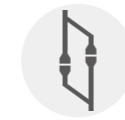
Compact design with rugged aluminum alloy housing

Book style with ultra-compact, sealed housing with fanless design.



CPU modular design

Latest processor with modular design, very easy for maintenance and upgrade.



No cable design

Using high quality connector between the boards, reliability and stability for no cable connection design.



Wide voltage power supply: DC12V~24V

DC12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



2×RS232/485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



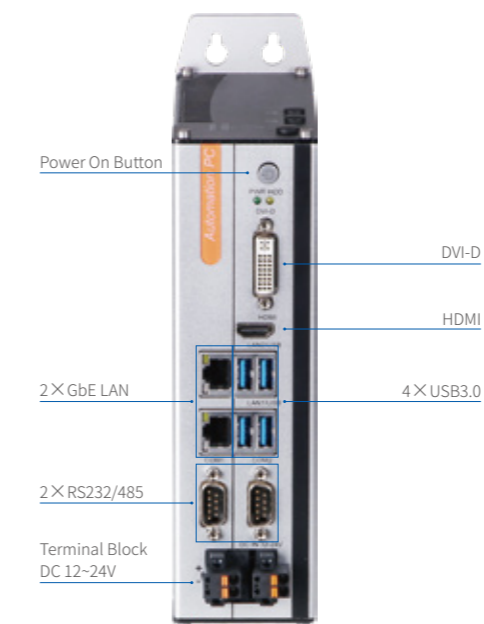
Extremely space-saving and Flexible

Flexible for CAN Bus, PoE LAN, Digital IO, Light source control and additional LAN port expansion.

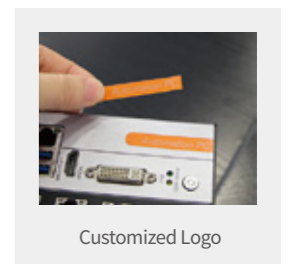
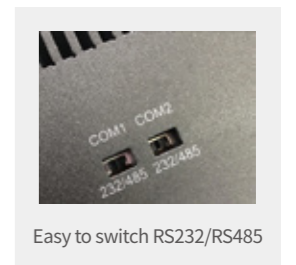
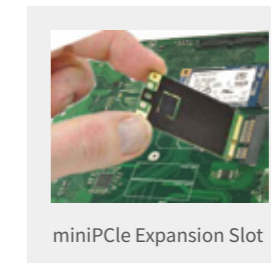


Flexible mounting

Book style with wall mounting, option Din-rail mounting so that the user can easily move the PC into the optimal position.



NP-6122/NP-6132



NP-61X2 SERIES



Model No.		NP-61X2	NP-61X2-H1	NP-61X2-H1B
System	CPU	NP-6122 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6132 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
	Ethernet	2×Intel GbE LAN controller		
	PoE	-	4×Intel GbE PoE LAN controller, max. 15W per channel	
	DI	-	8×DI NPN/PNP, isolated 3750 Vrms	16×DI NPN/PNP, isolated 3750 Vrms
	DO	-	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms
	CAN	-		
	Light Control	-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-
Display	DVI-D	Support up to 1920×1080		
	HDMI	Support up to 3840×2160		
Audio	Line-out	-		
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 120W	Max. 250W	Max. 200W
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm	200mm×154.5mm×74.6mm
	Net Weight	1.9Kg	2.4Kg	2.4Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



Model No.		NP-61X2-H1BP	NP-61X2-H7	NP-61X2-L2
		NP-6122 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6132 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
		Max. 65W		
		AMI UEFI 64Mbit		
		2×SO-DIMM DDR4-2400MHz, max up to 32GB		
		1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle	8×USB3.0, 1×USB2.0 Type A on the board for USB dongle	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle
		2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
		2×Intel GbE LAN controller		4×Intel GbE LAN controller
		4×Intel GbE PoE LAN controller, max. 15W per channel	-	-
		16×DI NPN/PNP(support 2-channel A/B phase differential encoder input acquisition, max. 1MHz)	8×DI NPN/PNP	-
		16×DO, NPN/PNP, I _{max} : 500mA (supports 2 single-ended PWM outputs, max. 1MHz)	8×DO, transistorized output, I _{max} :0.5A	-
		-	-	-
		-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-
		Support up to 1920×1080		
		Support up to 3840×2160		
		-		
		1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
		1~255 levels programmable		
		Windows 10 IoT		
		Ubuntu, CentOS, Debian		
		DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
		Max. 220W	Max. 120W (Light independently powered, according to the power supply)	Max. 120W
		Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
		200mm×154.5mm×74.6mm		
		2.4Kg	2.4Kg	2.0Kg
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		5~95%(Non-condensing)		
		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
		CE/FCC Class A		

NP-61X2 SERIES



Model No.		NP-61X2-JH2	NP-61X2-JH2B	NP-61X2-JH3
System	CPU	NP-6122 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6132 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle, 4×USB2.0 extended by PCIe x1
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		4×RS232/RS485, RS485 support auto flow control, ESD protection for RS232
	Ethernet	2×Intel GbE LAN controller		
	PoE	2×Intel GbE PoE LAN controller, max. 15W per channel	2×Intel GbE PoE LAN controller, max. 15W per channel	-
	DI	8×DI NPN/PNP, isolated 3750Vrms	16×DI NPN/PNP, 隔离电压3750Vrms	8×DI NPN/PNP, isolated 3750Vrms
	DO	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms
	CAN	-	-	2×CAN Bus 2.0A/B, 1 x DB9(Female)
	Light Control	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-	-
Display	DVI-D	Support up to 1920×1080		
	HDMI	Support up to 3840×2160		
Audio	Line-out	-	-	Optional
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 220W	Max. 150W	Max. 120W
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×74.6mm		
	Net Weight	2.4Kg		
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



Model No.		NP-6122-JH4	NP-61X2-8PoE	NP-61X2-CAN2	
System	CPU	NP-6122 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6132 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU			
	TDP	Max. 65W			
	BIOS	AMI UEFI 64Mbit			
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB			
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA			
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle			
	COM	2×RS232/RS485, 8×RS485(Phoenix Contactors) RS485 support auto flow control, ESD protection for RS232		2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232	
	Ethernet	2×Intel GbE LAN controller			
	PoE	-	8×Intel GbE PoE LAN controller, max. 15W per channel	-	
	DI	8×DI NPN/PNP, isolated 3750Vrms		-	-
	DO	4×x Relay DO, Normally Open, 30VDC(I _{max} : 1.0A)/60VDC(I _{max} : 0.3A)/125VAC(I _{max} : 0.5A)		-	-
	CAN	-	-	2×CAN Bus 2.0 A/B	
	Light Control	-	-	-	-
Display	DVI-D	Support up to 1920×1080			
	HDMI	Support up to 3840×2160			
Audio	Line-out	-	-	-	
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)			
Other	Watch Dog	1~255 levels programmable			
OS	Windows	Windows 10 IoT			
	Linux	Ubuntu, CentOS, Debian			
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)			
	Power Consumption	Max. 120W	Max. 250W	Max. 120W	
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail			
	Dimensions(L×W×H)	-			
	Net Weight	2.3Kg	2.6Kg	2.0Kg	
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)			
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)			
	Relative Humidity	5~95%(Non-condensing)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
	EMC	CE/FCC Class A			

NP-6123/NP-6133 SERIES

Ultra-compact Control Cabinet Industrial PC for Robots Control application



NP-6123/NP-6133 series is a high performance book style Industrial PC which use for Automation and Machine Vision industry. It is a COMLAC design which include courier board, CPU board and option different IO boards, equipped with the latest Intel® Core™ i3, i5, i7 and Pentium processor, COMLAC design means offer maximum scalability and upgrade to the latest processor but without any chassis change. There are 4 Intel gigabit LAN ports, a RS232/485 port, option DVI-D and HDMI display port, 4 USB 3.0 ports at the courier board, and an internal USB2.0 port for USB dongle, DC12~24V power input. Accept customized service for IO board in order to meet the various hardware requests, all of the IO ports are located in one side, it is convenient for wiring and maintenance. Rugged aluminum alloy and sealed housing, build in separately fan space, both make the product more reliable.

NP-6123/NP-6133 is widely used for 3C, pharmaceutical machinery, packaging machinery, automatic checkout test equipment, robots, motion control, intelligent transportation and other fields.



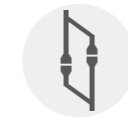
Compact design with rugged aluminum alloy housing

Book style with ultra-compact, sealed housing with fanless design.



CPU modular design

Latest processor with modular design, very easy for maintenance and upgrade.



No cable design

Using high quality connector between the boards, reliability and stability for no cable connection design.



Wide voltage power supply: DC12V~24V

DC12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



2×RS232/485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



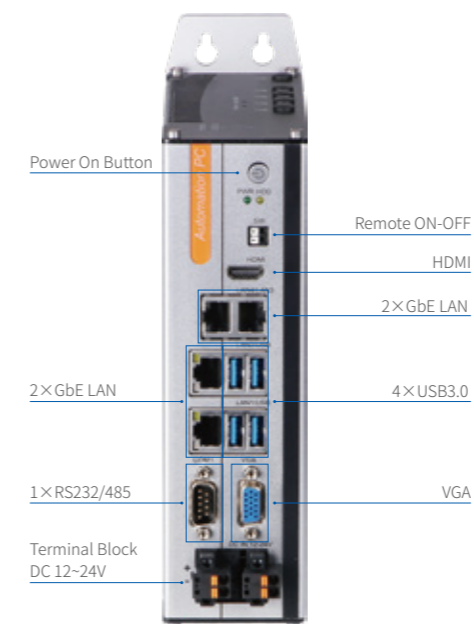
Extremely space-saving and Flexible

Flexible for CAN Bus, PoE LAN, Digital IO, Light source control and additional LAN port expansion.

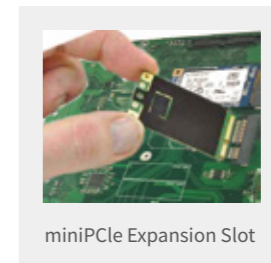


Flexible mounting

Book style with wall mounting, option Din-rail mounting so that the user can easily move the PC into the optimal position.



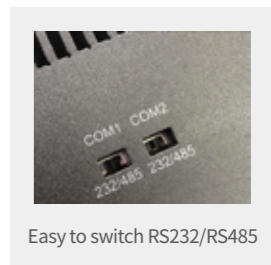
NP-6123/NP-6133



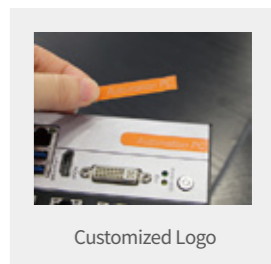
miniPCIe Expansion Slot



Internal USB2.0 for USB Dongle



Easy to switch RS232/RS485



Customized Logo



NP-61X3 SERIES



Model No.		NP-61X3	NP-61X3-MVS	NP-61X3-MVS-L1
System	CPU	NP-6123 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6133 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA	
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
	COM	1×RS232/RS485, RS485 support auto flow control, ESD protection for RS232	1×RS232/RS485, 1×RS485, RS485 support auto flow control, ESD protection for RS232	
	Ethernet	4×Intel GbE LAN controller		5×Intel GbE LAN controller
	PoE	-		
	DI	-	8×DI NPN/PNP, isolated 3750Vrms	
	DO	-	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 2500 Vrms	
	CAN	-		
	Light Control	-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	
Display	DVI-D	Support up to 1920×1080		
	HDMI	Support up to 3840×2160		
Audio	Line-out	-		
Expansions	Expansions	2×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection		
	Power Consumption	Max. 120W	Max. 300W	
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm	
	Net Weight	1.9Kg	2.4Kg	
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



Model No.		NP-61X3-16I160	NP-61X3-L2	NP-61X3-L4
		NP-6123 Series: Intel® Core™ 6/7/8/9th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6133 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
		Max. 65W		
		AMI UEFI 64Mbit		
		2×SO-DIMM DDR4-2400MHz, max up to 32GB		
		1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
		1×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		1×RS232/RS485, 1×RS485, RS485 support auto flow control, ESD protection for RS232
		4×Intel GbE LAN controller	6×Intel GbE LAN controller	8×Intel GbE LAN controller
		-		
		16×DI NPN/PNP, isolated 3750 Vrms	-	8×DI NPN/PNP, isolated 3750 Vrms
		16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	-	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms
		-		
		-		
		Support up to 1920×1080		
		Support up to 3840×2160		
		-		
		2×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
		1~255 levels programmable		
		Windows 10 IoT		
		Ubuntu, CentOS, Debian		
		DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection		
		Max. 120W	Max. 250W	Max. 120W
		Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
		200mm×154.5mm×74.6mm		
		2.4kg	2.0kg	2.4kg
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		5~95%(Non-condensing)		
		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
		CE/FCC Class A		

NP-6125/NP-6135 SERIES

Ultra-compact Control Cabinet Industrial PC with High performance processor



NP-6125/NP-6135 series is a high performance book style Industrial PC which use for Automation and Machine Vision industry. It is a COMLAC design which include courier board, CPU board and option different IO boards, equipped with the latest Intel® Core™ i3, i5, i7 and Pentium processor, COMLAC design means offer maximum scalability and upgrade to the latest processor but without any chassis change. There are 2 Intel gigabit LAN ports, 2 RS232/485 ports, option VGA and HDMI display port, 4 USB 3.0 ports at the courier board, and an internal USB2.0 port for USB dongle, DC12~24V power input. Accept customized service for IO board in order to meet the various hardware requests, all of the IO ports are located in one side, it is convenient for wiring and maintenance. Rugged aluminum alloy and sealed housing, build in separately fan space, both make the product more reliable.

NP-6125/NP-6135 is widely used for 3C, pharmaceutical machinery, packaging machinery, automatic checkout test equipment, robots, motion control, intelligent transportation and other fields.



Compact design with rugged aluminum alloy housing

Book style with ultra-compact, sealed housing with fanless design.



CPU modular design

Latest processor with modular design, very easy for maintenance and upgrade.



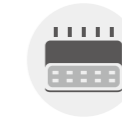
No cable design

Using high quality connector between the boards, reliability and stability for no cable connection design.



Wide voltage power supply: DC12V~24V

DC12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



2×RS232/485

8KV electrostatic protection, 600W TVS surge protection, RS485 support automatic data flow control.



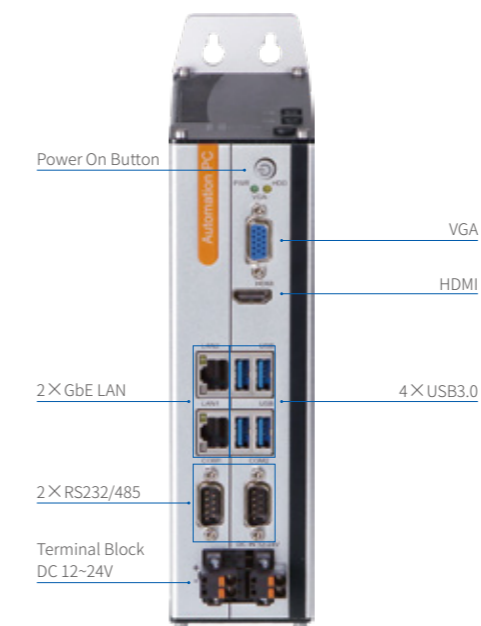
Extremely space-saving and Flexible

Flexible for CAN Bus, PoE LAN, Digital IO, Light source control and additional LAN port expansion.

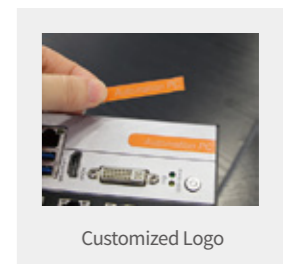
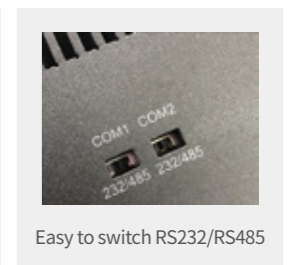
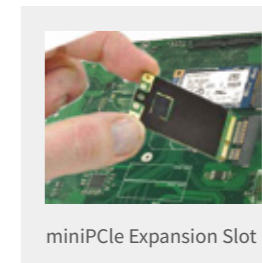


Flexible mounting

Book style with wall mounting, option Din-rail mounting so that the user can easily move the PC into the optimal position.



NP-6125/NP-6135



NP-61X5 SERIES



Model No.		NP-61X5	NP-61X5-H1	NP-61X5-H1B
System	CPU	NP-6125 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6135 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
	Ethernet	2×Intel GbE LAN controller		
	PoE	-	4×Intel GbE PoE LAN controller, max. 15W per channel	
	DI	-	8×DI NPN/PNP, isolated 3750 Vrms	16×DI NPN/PNP, isolated 3750 Vrms
	DO	-	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms
	CAN	-		
	Light Control	-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-
	Display	VGA	Support up to 1920×1080	
HDMI		Support up to 3840×2160		
Audio	Line-out	-		
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 120W	Max. 250W	Max. 200W
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm	200mm×154.5mm×74.6mm
	Net Weight	1.9Kg	2.4Kg	2.4Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



Model No.		NP-61X5-H1BP	NP-61X5-H7	NP-61X5-L2
		NP-6125 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6135 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
		Max. 65W		
		AMI UEFI 64Mbit		
		2×SO-DIMM DDR4-2400MHz, max up to 32GB		
		1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle	8×USB3.0, 1×USB2.0 Type A on the board for USB dongle	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle
		2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
		2×Intel GbE LAN controller		4×Intel GbE LAN controller
		4×Intel GbE PoE LAN controller, max. 15W per channel	-	-
		16×DI NPN/PNP(support 2-channel A/B phase differential encoder input acquisition, max. 1MHz)	8×DI NPN/PNP	-
		16×DO, NPN/PNP, I _{max} : 500mA (supports 2 single-ended PWM outputs, max. 1MHz)	8×DO, transistorized output, I _{max} :0.5A	-
		-	-	-
		-	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-
		Support up to 1920×1080		
		Support up to 3840×2160		
		-		
		1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
		1~255 levels programmable		
		Windows 10 IoT		
		Ubuntu, CentOS, Debian		
		DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
		Max. 220W	Max. 120W (Light independently powered, according to the power supply)	Max. 120W
		Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
		200mm×154.5mm×74.6mm		
		2.4Kg	2.4Kg	2.0Kg
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
		5~95%(Non-condensing)		
		Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
		Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
		CE/FCC Class A		

NP-61X5 SERIES



Model No.		NP-61X5-JH2	NP-61X5-JH2B	NP-61X5-JH3
System	CPU	NP-6125 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6135 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle, 4×USB2.0 extended by PCIe x1
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		4×RS232/RS485, RS485 support auto flow control, ESD protection for RS232
	Ethernet	2×Intel GbE LAN controller		
	PoE	2×Intel GbE PoE LAN controller, max. 15W per channel	2×Intel GbE PoE LAN controller, max. 15W per channel	-
	DI	8×DI NPN/PNP, isolated 3750Vrms	16×DI NPN/PNP, 隔离电压3750Vrms	8×DI NPN/PNP, isolated 3750Vrms
	DO	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	16×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms	8×DO, Transistor output, I _{max} :0.5A per channel, isolated 3750 Vrms
	CAN	-	-	2×CAN Bus 2.0A/B, 1 x DB9(Female)
	Light Control	4×PWM Light power control with external trigger input, I _{max} : 1A per channel	-	-
Display	VGA	Support up to 1920×1080		
	HDMI	Support up to 3840×2160		
Audio	Line-out	-	-	Optional
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 220W	Max. 150W	Max. 120W
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	200mm×154.5mm×74.6mm		
	Net Weight	2.4Kg		
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		



Model No.		NP-6125-JH4	NP-61X5-8PoE	NP-61X5-CAN2
System	CPU	NP-6125 Series: Intel® Core™ 6/7/8 th i7/i5/i3/Pentium® /Celeron® LGA1151 type CPU NP-6135 Series: Intel® Core™ 10/11th i9/ i7/i5/i3 LGA1200 type CPU		
	TDP	Max. 65W		
	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
	Storage	1×mSATA bay, 1×M.2(B Key, Type 2280) bay support SATA		
I/O	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		4×USB3.0, 1×USB2.0 Type A on the board for USB dongle, 4×USB2.0 extended by PCIe x1
	COM	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		4×RS232/RS485, RS485 support auto flow control, ESD protection for RS232
	Ethernet	2×Intel GbE LAN controller		
	PoE	-	8×Intel GbE PoE LAN controller, max. 15W per channel	-
	DI	8×DI NPN/PNP, isolated 3750Vrms		-
	DO	4×x Relay DO, Normally Open, 30VDC(I _{max} : 1.0A)/60VDC(I _{max} : 0.3A)/125VAC(I _{max} : 0.5A)		-
	CAN	-	-	2×CAN Bus 2.0 A/B
	Light Control	-	-	-
Display	VGA	Support up to 1920×1080		
	HDMI	Support up to 3840×2160		
Audio	Line-out	-	-	-
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Other	Watch Dog	1~255 levels programmable		
OS	Windows	Windows 10 IoT		
	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V ±10%, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Control)		
	Power Consumption	Max. 120W	Max. 250W	Max. 120W
Chassis	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail		
	Dimensions(L×W×H)	-		
	Net Weight	2.3Kg	2.6Kg	2.0Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
	Relative Humidity	5~95%(Non-condensing)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class A		

NP-6116 SERIES



LAN
3×Gigabit ports



COM
1×RS232, 1×RS485



miniPCIe
2×miniPCIe slot for Wifi, 3G/4G/5G, LAN



Wide voltage power supply:DC12V~24V
overcurrent, overvoltage and polarity inverse protection.Double fastening power plugs.



Compact design
book style, wall mounted, din rail mounted extremely space-saving design.



USB
3×USB



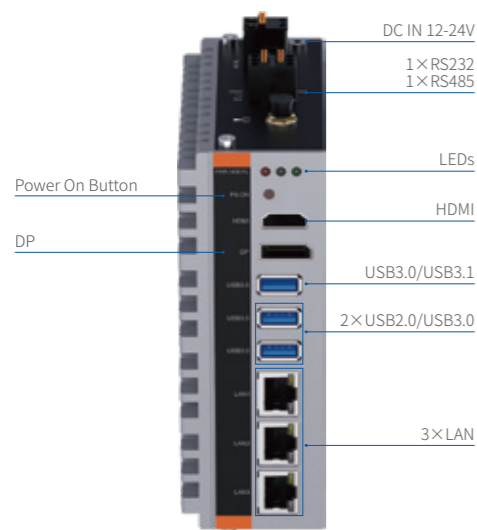
Display
DP and HDMI display port



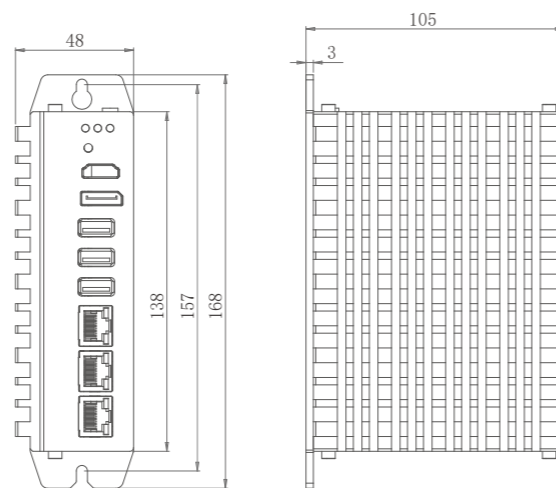
Fastened MSATA electronic disk slot
To avoid IPC failure caused by the use of mechanical hard drive in the vibration, high temperature and illegal power.



Perfect cooling system design
Fully enclosed structure, fanless, cable-free design. Working temperature: -20°C~60°C



NP-6116



Dimension (Unit:mm)

Model No.		NP-6116-J6412	NP-6116-J6412-IO	NP-6116-J1900	NP-6116-J1900-IO
System	CPU	intel® Celeron J6412, 2.0-2.6GHz, 4cores/4threads, 1.5MB L2 cache		intel® Celeron J1900, 2.0-2.41GHz, 4cores/4threads, 2MB L2 cache	
	TDP	10W		10W	
	BIOS	AMI UEFI 256Mb		AMI 64Mb UEFI	
	Memory	1×SO-DIMM DDR4-3200MHz (max. 32GB)		1×SO-DIMM DDR3L-1333MHz (max. 8GB)	
	Storage	1×M.2 2242		1×M.2 2242 SATA2.0	
I/O	USB	3×USB3.1		1×USB3.0, 2×USB2.0	
	COM	1×RS232, 1×RS485		1×RS232, 1×RS485	
	Ethernet	3×Intel GbE LAN controller		2×RTL8111H GbE LAN controller, 1×Intel GbE LAN controller	
	PoE				
	DI	-	8×DI	-	8×DI
	DO	-	8×DO	-	8×DO
	LED	1×Programmable led			
Display	HDMI	Support up to 4096 x 2160 @60Hz		Support up to 2560×1600 @60Hz	
	DP	Support up to 3840 x 2160 @60Hz		Support up to 1920×1080 @60Hz	
	VGA				
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)			
Other	Watch Dog	1~255 levels programmable			
OS	Windows	Windows 10			
	Linux	Ubuntu			
Power	Voltage Input	DC12/24V ±10%, overcurrent, overvoltage and polarity inverse protection			
	Power Consumption	Max. 45W			
Chassis	Structure	Fanless, Wall-mounted or DIN-Rail			
	Dimensions(L×W×H)	138mm×102mm×48mm	178mm×102mm×48mm	138mm×102mm×48mm	178mm×102mm×48mm
	Net Weight	1.06Kg	1.15Kg	1.06Kg	1.15Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)			
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)			
	Relative Humidity	5~95%(Non-condensing)			
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
EMC	CE/FCC Class B				

NP-6117 SERIES



LAN
3×Gigabit ports



COM
1×RS232, 1×RS485 (Phoenix terminal)



miniPCIe
1×miniPCIe slot for Wifi, 3G/4G/5G, LAN



Wide voltage power supply: DC12V~24V
DC12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Compact design
book style, wall mounted, din rail mounted extremely space-saving design.



USB
2×USB
1×USB2.0 Type A onboard for dongle



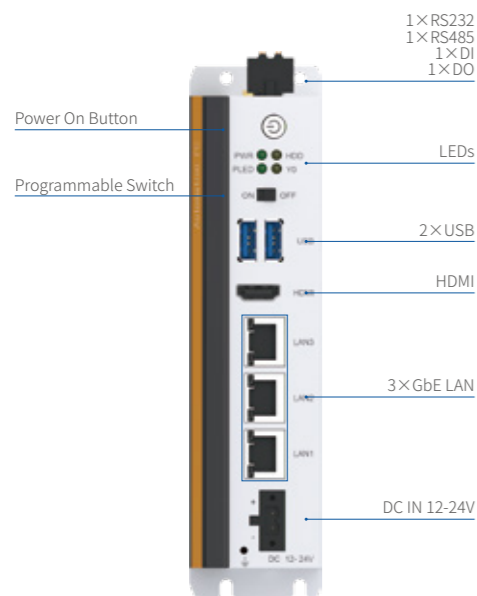
Without cable inside
Without cable connection to protect the reliability and lower failure rate.



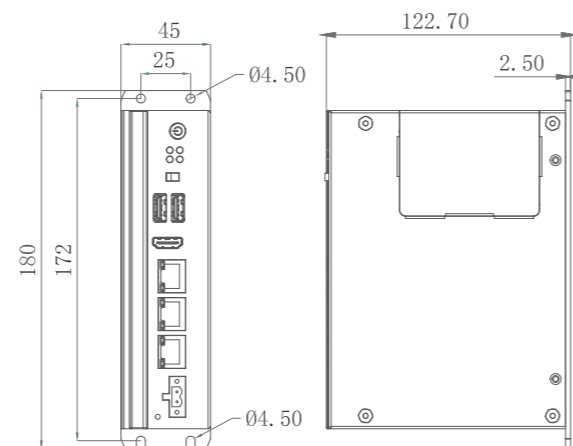
Fastened MSATA electronic disk slot
To avoid IPC failure caused by the use of mechanical hard drive in the vibration, high temperature and illegal power.



Perfect cooling system design
Fully enclosed structure, fanless, cable-free design
Working temperature: -20°C~60°C.



NP-6117



Dimension (Unit:mm)

Model No.	NP-6117-J6412	NP-6117-J1900	
System	CPU	Intel® Celeron J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache	Intel® Celeron J1900, 2.0~2.41GHz, 4 cores/4 threads, 2MB L2 cache
	TDP	10W	10W
	BIOS	AMI UEFI 64Mb	AMI 64Mb UEFI
	Memory	1×SO-DIMM DDR4-2400MHz (max. 32GB)	1×SO-DIMM DDR3L-1333MHz (max. 8GB)
	Storage	1×mSATA SSD bay	
I/O	USB	2×USB3.0, 1×USB2.0 Type A on the board for USB dongle	1×USB3.0, 1×USB2.0, 1×USB2.0 Type A on the board for USB dongle
	COM	1×RS232, 1×RS485 (Phoenix terminal interface)	
	Ethernet	1×Intel GbE LAN controller, 2×Realtek GbE LAN controller	
	PoE	-	
	DI	1×DI NPN, 1× Programmable Switch	
	DO	1×DO Transistor output; 1× Programmable LED	
	CAN	-	
	Light Control	-	
Display	HDMI	Support up to 4096 x 2160 @60Hz	Support up to 2560 × 1600 @60Hz
	DP	-	
	VGA	-	
Expansions	Expansions	1×Full-size PCIe Mini slot with SIM card holder(with USB signal)	
Other	Watch Dog	1~255 levels programmable	
OS	Windows	Windows 10	
	Linux	Ubuntu	
Power	Voltage Input	DC12/24V ±10%, overcurrent, overvoltage and polarity inverse protection	
	Power Consumption	Max. 45W	
Chassis	Structure	Fanless, Wall-mounted or DIN-Rail	
	Dimensions(L×W×H)	160mm×123.2mm×45mm	
	Net Weight	1.06Kg	
Reliability	Work Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)	
	Storage Temperature	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)	
	Relative Humidity	5~95%(Non-condensing)	
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64	
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27	
EMC	CE/FCC Class A		

NP-6118 SERIES



Compact design with rugged aluminum alloy housing
Book style with ultra-compact, sealed housing with fanless design.

Fanless Design
Fanless design but working temperature is -20 to 60°C.

Modular design
You can install the modules easily when unscrewing the cooling cover: COMLAC CPU module, Memory, mSATA SSD, USB dongle, CMOS battery.

No cable design
Using high quality connector between the boards, reliability and stability for no cable connection design.

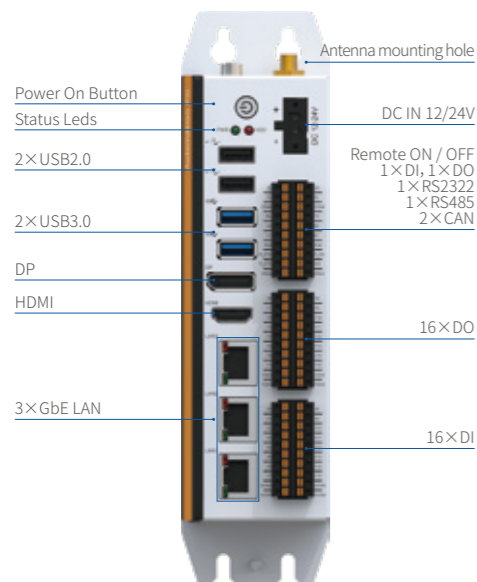
Fastened power connector
DC 24V power input, with over-current, overvoltage and reverse protection measures, the interface using.

UPS
Build in super capacitor UPS, can backup for 5 seconds.

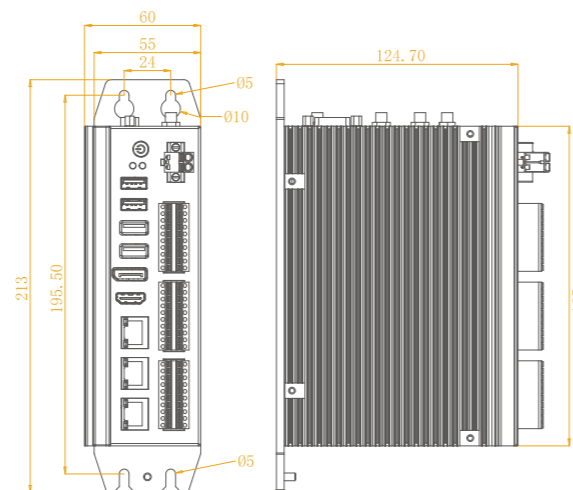
USB
2 × USB3.0, 2 × USB2.0, 1 × USB2.0 Type A on the board for USB dongle.

Super capacitor
IO signal can be triggered to save data when power. As a filter when power fluctuations. Space-saving.

Easy for customization
Customized logo, Customized Independent IO.



NP-6118



Dimension (Unit:mm)

Model No.		NP-6118-161160C
System	CPU	Intel® Celeron J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache
	TDP	10W
	BIOS	AMI UEFI 64Mbit
	Memory	1 × SO-DIMM DDR4-2400MHz (max. 16GB)
	Storage	1 × mSATA SSD bay
I/O	USB	2 × USB3.0, 2 × USB2.0, 1 × USB2.0 Type A on the board for USB dongle
	COM	1 × RS232, 2 × RS485
	Ethernet	1 × Intel GbE LAN controller, 2 × Realtek GbE LAN controller
	PoE	-
	DI	16 x DI NPN/PNP, isolated 2500 Vrms
	DO	16 x DO, Transistor output, I _{max} :0.5A per channel, isolated 2500 Vrms
	CAN	2 × CAN Bus 2.0A/B
	Light Control	-
Display	HDMI	Support up to 3840 × 2160
	DP	Support up to 3840 × 2160
	VGA	-
Expansions	Expansions	1 x Full-size PCIe Mini slot with SIM card holder(with USB signal), 1 x M.2 KEY-A, Support Wifi modules
Other	Watch Dog	1~255 levels programmable
OS	Windows	Windows 10 IoT
	Linux	Ubuntu
Power	Voltage Input	DC24V ±10%, overcurrent, overvoltage and polarity inverse protection, Super capacitors integrated.
	Power Consumption	Max. 45W
Chassis	Structure	Fanless, Wall-mounted or DIN-Rail
	Dimensions(L × W × H)	165mm × 124.7mm × 60mm
	Net Weight	2.1Kg
Reliability	Work Temperature	-20°C ~ 60°C (-4°F ~ 140°F) with air flow (SSD)
	Storage Temperature	-20°C ~ 60°C (-4°F ~ 140°F) with air flow (SSD)
	Relative Humidity	5~95%(Non-condensing)
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64
	Operating Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27
EMC		CE/FCC Class A

NP-6310-A UPS



NP-6310 is a UPS module that can protect your PC and data in case of power loss, it adapts. The UPS module is used for the uninterruptible power supply of your PC. In the event of a failure of the external supply, the module ensures that the application software can save important data. The module adopts super capacitor technology and intelligent power management technology, and can independently manage the startup and shutdown of the device. It can operate in a wide temperature ranging from -20 degrees Celsius to 60 degrees Celsius.

eLink-200



eLINK-200 is designed for long-distance data transmission, it includes sender and receiver which both use high performance chipset and components.

The sender transmits HD video signal, USB signal of touch, RS232 signal to the receiver through only a network CAT6 cable, and the transmission distance from PC to display up to 100 meters. By decoding at the receiving end, a high-quality picture is presented to the user.

With the most compact and very small mounting space, eLINK-200 is widely used in large equipment, CNC/Laser equipment and other application of long-distance transmission requirements.

- High performance decoding chip
- Industrial grade design with surge protection
- Maxium 100 meters communication
- Transmitting video signal, USB signal and serial port signal at the same time
- Book mounting kit

