

NODKA

KEEP IMPROVING AND MAKING

BETTER PANEL PC

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

NODKA Suzhou

No. 480, Yinzang Road, Linhu Town, Wuzhong District, Suzhou City Email: vikki@nodka.com Mobile: +86 136 7156 0856 Tel:+86-512-66202700 Fax:+86-512-66203900

NODKA Europe Luchthavenweg 81.212, 5657 EA Eindhoven, The Netherland Email: wuyong@nodka.com Mobile: +31(0) 6 2029 2256

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

V 2022 A2.0



Nodka office

• Local partner

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 20 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 1 branch office in the Netherlands, more than 14 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 Introduction COMLAC CPU Modules





ICP69 Series IDP59 Series





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Machine Vision and so on.

al-grade and military-grade products which upgrades, bug check, product tracking, With the change of market requirement and shooting and problem solving, to grow with







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 onlythe high capability of COM Express, but also the advantage of Qseven and SMARC for smaller size, lower cost and failure rate, which given 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).
- $\cdot \ \, \text{Through the compatibility design, the same carrier board can be compatible with different CPU core} \\ \ \, \text{modules, which brings advantage of flexibility for platform exchange and upgrade ,as well as the better cost control.} \\$
- \cdot 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.
- \cdot Fast implementation of own hardware circuit design to Carrier board, help reduce the connection cables and addon cards around device, improve product integration and reliability.
- · Enable customer to import new technology quickly, reserve possibility of the further development.

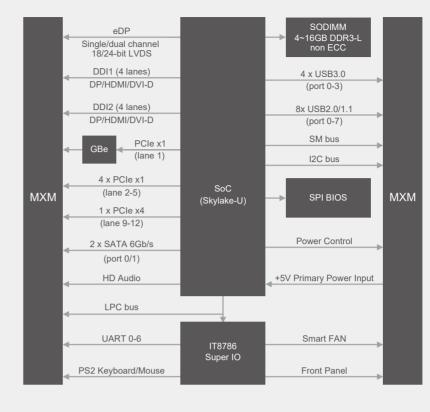
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What is COMLAC?

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

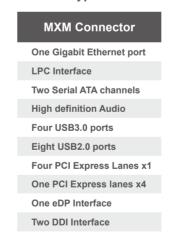
selection assistance X86 architecture analysis

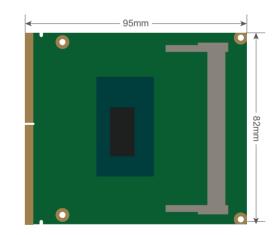
- · Carrier board design guidance information
- Schematic reference
- · Technical design assistance
- · Schematic design and audit assistance
- · PCB design and audit assistance
- · Thermal design and audit assistance
- PCBA process assistance
- · BIOS function customization

(boot screen, default settings, etc.)

· Faulty analysis, positioning and troubleshooting

COMLAC Type3 Revision1.0





MXM Connector
Four GPIO pins
Keyboard/Mouse
+5V primary power input
External SMB Bus
External I2C Bus
Power Control
Front Panel signal
Smart Fan Control
SDIO Interface
Six Serial Ports

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





M	odel No.	NK-L316-4205U	NK-L315-7200U		
CPU		Intel® Celeron® 4205U	Intel® Core™ i5-7200U		
	Base Frequency	1.8GHz	2.5GHz		
	Max Turbo Frequency	-	3.1GHz		
Processor	CPU TDP	15W	15W		
	Chipset	Integrated PCH-LP	Integrated PCH-LP		
	BIOS	AMI UEFI 128Mbit	AMI UEFI 128Mbit		
	Memory	DDR4-2133MHz SODIMM, support up to 16GB	DDR3L-1600MHz SODIMM, support up to 8GB		
	Controller	Intel® HD Graphics 610	Intel® HD Graphics 620		
	Base/Turbo Memory	300/900MHz	300/1000MHz		
Graphics	Graphics Memory	Intel DVMT	Intel DVMT		
	3D/HW Acceleration	Direct3D 2015/11.2/11.1/10/9, Direct2D, OpenGL 5.0, OpenCL 2.1/2.0/1.2 HW Decode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, WMV9/VC1, JPEG/MJPEG HW Encode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, JPEG	Direct3D 2015/112/11.1/10/9, Direct2D, OpenGL 5.0, OpenCL 2.1/2.0/1.2 HW Decode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, WMV9/VC1, JPEG/MJPEG HW Encode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, JPEG		
	LCD	eDP up to 3840×2160 @ 60Hz 24bpp or 4096×2304 @ 60Hz 24bpp Convert to LVDS support 2 channels 18/24-bit, up to 1920×1200 @ 60Hz	eDP up to 3840×2160 @ 60Hz 24bpp or 4096×2304 @ 60Hz 24bpp Convert to LVDS support 2 channels 18/24-bit, up to 1920×1200 @ 60Hz		
Display	DDI	2 Ports, configurable to HDMI1.4/DVI/Displayport1.2 HDMI up to 4096×2160 @ 24Hz 24bpp DVI up to 1920×1200 @ 60Hz DP up to 4096×2304 @ 60Hz 24bpp Or convert to VGA up to 1920×1200 @ 60Hz	2 Ports, configurable to HDMI1.4/DVI/Displayport1.2 HDMI up to 4096×2160 @ 24Hz 24bpp DVI up to 1920×1200 @ 60Hz DP up to 4096×2304 @ 60Hz 24bpp Or convert to VGA up to 1920×1200 @ 60Hz		
	Multi-Display	Support 3 Independent display	Support 3 Independent display		
	PCI Express x1	PCI Express Gen3 (8.0GT/s), Celeron Only support PCI Express Gen2 (5.0GT/s)	PCI Express Gen3 (8.0GT/s), Celeron Only support PCI Express Gen2 (5.0GT/s)		
F		5 PCle×1 or 4 PCle×1+1 PCle ×4 (support up to 5 devices and 8 lanes)	5 PCle×1 or 4 PCle×1+1 PCle ×4 (support up to 5 devices and 8 lane		
Expansion	Audio Interface	Intel HD Audio Interface			
	LPC	Yes (24MHz)			
Serial Bus	SMBus	Yes			
I2C Bus		Yes			
Ethernet	Speed	10/100/1	000Mbps		
	GbE	Intel G	be lan		
H/W Monitor	WatchDog Timer	Output system reset, Programm	able counter from 1-255 seconds		
	Smart Fan	1×4 pin DC sn	nart fan control		
	COMLAC Connector	MXI	ИЗ.0		
	SATA	2×SATA Gen3, up to	o 6.0 Gb/s (600MB/s)		
	USB3.0	4 Ports	4 Ports		
10	USB2.0	8 Ports	8 Ports		
	GPIO		pose input/output		
	COM port	,	S232, COM3-6: 3-wire RS232		
	Keyboard/Mouse		1		
	Front Panel	Power Switch, Reset, Power LED, HDD LED			
	Power Type Power Consumption		DC power input		
	(Typical) Power Consumption	7.5W	7.5W		
Power	(Max.)	25W	25W		
	Power Manaement		(/210mAL)		
	Battery	Lithium 3V / 210mAH			
Environmental	Operating		humidity: 40°C @ 95% RH Non-Condensing		
	Storage	-40~85°C and 60°C @ 95% RH Non-Condensing			





NK-L313-J3455	NK-L312-J1900				
Intel [®] Celeron [®] J3455	Intel® Celeron® J1900				
1.5GHz	2.0GHz				
2.3GHz	2.42GHz				
10W	10W				
Integrated PCH-LP	Integrated PCH-LP				
AMI UEFI 128Mbit	AMI UEFI 64Mbit				
$1\times$ DDR3L-1333/1600/1866MHz SODIMM, support up to 8GB	1×DDR3L-1333MHz SODIMM, support up to 8GB				
Intel® HD Graphics 500	Intel® HD Graphics Z3700				
250/750MHz	688/854MHz				
Intel DVMT	Intel DVMT				
Direct3D 2015/11.2/11.1/10/9, Direct2D, OpenGL 5.0, OpenGL 2.1/2.0/1.2 HW Decode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, WMV9/VC1, JPEG/MJPEG HW Encode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, JPEG	Direct3D 2015/11.2/11.1/10/9, Direct2D, OpenGL 5.0, OpenCL 2.1/2.0/1.2 HW Decode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, WMV9/VC1, JPEG/MJPEG HW Encode: H.265/HEVC, H.264/AVC, VP9, VP8, MPEG2, JPEG				
eDP up to 3840 \times 2160 @ 60Hz 24bpp or 4096 \times 2304 @ 60Hz 24bpp Convert to LVDS support 2 channels 18/24-bit, up to 1920 \times 1200 @ 60Hz	eDP up to 3840×2160 @ 60Hz 24bpp or 4096×2304 @ 60Hz 24bpp Convert to LVDS support 2 channels 18/24-bit, up to 1920×1200 @ 60Hz				
2 Ports, configurable to HDMI1.4/DVI/Displayport1.2 HDMI up to 4096×2160 @ 24Hz 24bpp DVI up to 1920×1200 @ 60Hz DP up to 4096×2304 @ 60Hz 24bpp Or convert to VGA up to 1920×1200 @ 60Hz	2 Ports, configurable to HDMI1.4/DVI/Displayport1.2 HDMI up to 4096×2160 @ 24Hz 24bpp Or convert to VGA up to 1920×1200 @ 60Hz				
Support 3 Independent display	Support 3 Independent display				
PCI Express Gen3 (8.0GT/s), Celeron Only support PCI Express Gen2 (5.0GT/s)	PCI Express Celeron Only support PCI Express Gen2 (5.0GT/s)				
$5\text{PCle}\times1\text{or}4\text{PCle}\times1+1\text{PCle}\times4\text{(supportupto}5\text{devices}\text{and}8\text{lanes)}$	4 PCle×1+4 PCle×1 (support up to 4 devices and 4 lanes)				
Intel HD Audio Interface					
Yes (2-	4MHz)				
Ye	es				
Yes					
10/100/1000Mbps					
Intel G	Intel GbE LAN				
Output system reset, Programma	able counter from 1-255 seconds				
1×4 pin DC sm	nart fan control				
MXN	M3.0				
2×SATA Gen3, up to	o 6.0 Gb/s (600MB/s)				
4 Ports	1 Ports				
8 Ports	8 Ports				
4-bits general pur	pose input/output				
6×COM, COM1-2: 9-wire RS	S232, COM3-6: 3-wire RS232				
	1				
Power Switch, Reset, Power LED, HDD LED					
Single +5V±5%	Single +5V±5% DC power input				
7.5W	10W				
25W	-				
	CPI				
	//210mAH				
	dity: 40°C @ 95% RH Non-Condensing				
-40~85°C and 60°C @ 95	-40~85°C and 60°C @ 95% RH Non-Condensing				

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.

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ICP69 SERIES IDP59 SERIES









Me	odel No.	ICP6915	ICP6919	ICP69185	ICP69215		
	CPU	Intel® Celeron® 4205U/J1900/Core™ i5 7200U					
Processor	Main Frequency	Dual Core 1.8GHz/Quad core 2.0GHz/Dual Core 2.5GHz					
	L3 Cache	2MB/2MB/3MB					
	Memory	1×DDR4-2400MHz, max 16GB / 1×DDR3L-1333MHz, max 8GB / 1×DDR3L-1600MHz, max 8GB					
	Storage interface		1×2.5" SATA H	DD+1×mSATA			
	Ethernet	2×Intel 1000Mbps RJ-45 Ethernet interface					
	Audio	Optional					
I/O	USB	4×USB3.0/2.0/1.1					
	Serial port	2×RS232/	$2\times$ RS232 / RS485 with surge protection, RS485 support automatic flow control				
	Expansion slot		1×Mini-PCIe slot, extensible 3G, WIFI wireless card				
	Weight	8.3KG	11.30KG	10.24KG	14.30KG		
	Pensile Direction		Optional U	lp or Down			
Physical	Fixed Stand of Cantilever		Suitable fo	r full series			
Physical	Handle of Operation Panel		Stan	dard			
	Operation Button	Nodka Standard: USB, R	otatable switch, Push butto	n (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, over	ercurrent protection		
Power	Power Dissipation (Max.)	Depend on the processor	Depend on the processor	Depend on the processor	Depend on the processor		
	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		
LCD	Backlight	LED	LED	LED	LED		
LCD	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 type	Capacitive touch screen					
	Transmittance	> 87%					
Touchscreen	Response Time (touch pen)		< 5	ms			
Touchscreen	Surface Hardness		Mohs'Ha	rdness 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		
	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)			
Environmental	Vibration	Operating Rand	dom Vibration Test 5~500Hz	, 1.5Grms@with SSD, follow	IEC 60068-2-64		
	Shock	Operatir	ng 20G peak acceleration (11	Lms duration), follow IEC 60	068-2-27		
	EMC		CE/FCC	Class B			
	Water-proof	IP65					









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Model No.		IDP5915	IDP5919	IDP59185	IDP59215	
Input interface	Signal input	VGA+DVI input				
input interface	Communication interface	USB2.0 input				
	Weight	8.3KG	11.30KG	10.24KG	14.30KG	
	Pensile Direction	Optional Up or Down				
	Fixed Stand of Cantilever	Suitable for full series				
Physical	Handle of Operation Panel	Standard				
Filysicat	Keyboard tray	Optional				
	Operation Button	Nodka Standard: USB, F	Rotatable switch, Push butto	on (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, over	ercurrent protection	
Power	Power Dissipation (Max.)	Depend on the processor	Depend on the processor	Depend on the processor	Depend on the processor	
	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	
LCD	Backlight	LED	LED	LED	LED	
LCD	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 type	Capacitive Touchscreen				
	Transmittance	> 87%				
Touchscreen	Response Time (touch pen)	<5ms				
Touchiscreen	Surface Hardness		Mohs'Ha	rdness 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	
	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)		
Environmental	Vibration	Operating Rand	dom Vibration Test 5~500Hz	, 1.5Grms@with SSD, follow	IEC 60068-2-64	
	Shock	Operatir	ng 20G peak acceleration (11	Lms duration), follow IEC 60	068-2-27	
	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 6/7/8/9th Gen. Intel® Core™ i3 i5 i7, Pentium® and Celeron® LGA1151 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, 4205U, i5-7200U etc., 2 Intel® Gigabit LAN ports, 1 EasyBus port can expend 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 deisgn, 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".

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Rugged industrial grade design

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



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 industrial applications.



Neutral front Panel

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



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.



5-wire resistive touch screen

5-wire resistive touch, 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

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



DC12V/24V Power input

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

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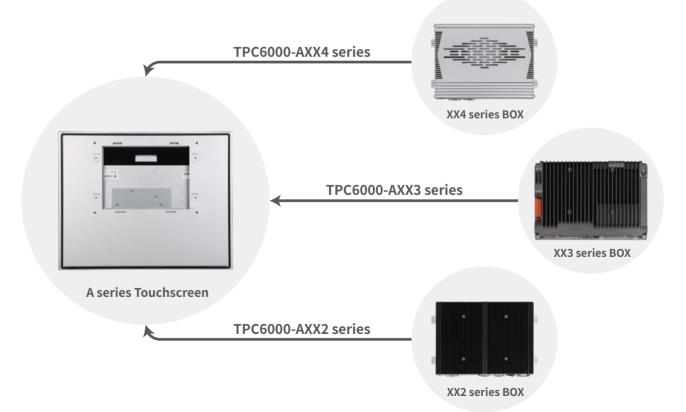
Vaiour mounting options

VESA Mount,PanelMount,etc.



Easybus design

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



TPC6000-AXX4 SERIES





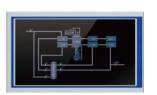




Me	odel No.	TPC6000-A104	TPC6000-A124	TPC6000-A154		
	CPU	Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP				
Processor	BIOS	AMI UEFI 64Mbit				
	Chipset	H110				
	Memory	DDR4-2400 MHz, 2×SO-DIMM Slot, Up to 32GB				
	Storage interface	1×M.2	(M Key 2280 PCIe Gen3×4 Lane) + 1×r	mSATA		
	Ethernet		3×Intel 10/100/1000Mbps controller			
	USB	4×USB3.0 / 2×USB2.0				
I/O	COM	$4\times$ 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 We	et contact input (24V) , OC gate output ((24V 300mA)		
	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")		
Physical	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		
D	DC input	DC 12~24V±10%, Support re	everse connection protection, over volt	age protection, over current		
Power	Idle Mode Power Consumption	22Watt	25Watt	28Watt		
	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")		
1.60	Backlight	WLED	WLED	WLED		
LCD	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 type		Resistive touch screen			
	Resolution		4096×4096			
	Transmittance		> 75%	>75%		
	Controller interface		USB			
Touchscreen	Driver Support	Wi	indows 7, Windows8, Windows10, Linu	X		
	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	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~ 45°C (32~113°F)(General temperature HDD/SSD)				
	Storage Temperature		-30 ~ 80°C (-22~176°F)			
	Relative Humidity	5 ~ 95% RH@40°C (Non-condensation)				
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SSD), follow IEC 60068-2-64		
	Shock	Operating 20G pe	ak acceleration (11ms duration), follow	v IEC 60068-2-27		
	EMC	CE/FCC Class B				
	Water-proof		Front panel IP65			







TPC6000-A174	TPC6000-A194	TPC6000-A2154				
Intel® Core™ 6/7/8,	/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type	CPU. Max.65W TDP				
	AMI UEFI 64Mbit					
	H110					
	DDR4-2400 MHz, $2\times$ SO-DIMM Slot, Up to 32GB					
	$1 \times$ M.2 (M Key 2280 PCIe Gen $3 \times$ 4 Lane) + $1 \times$ mSATA	A				
	3×Intel 10/100/1000Mbps controller					
	4×USB3.0/2×USB2.0					
4×RS232 / RS485	Interface with surge protection, RS485 support auto	matic flow control				
	$1 \times$ Mini-PCIe slot, extensible 3G, WIFI wireless card					
8DI +	8DO Wet contact input (24V), OC gate output (24V 30	00mA)				
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	533mm×325mm				
6.5kg	(17.44"×13.86") 7.5kg	(20.98"×12.80") 8.5kg				
	ndows 7 Embedded, Windows 8, Windows 10, Linux	<u> </u>				
	pport reverse connection protection, over voltage p					
30Watt	35Watt	40Watt				
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	376.3mm×301mm	476mm×268mm				
(13.31"×10.63")	(14.81"×11.85")	(18.74"×10.55")				
WLED	WLED	WLED				
50000hrs	30000hrs	50000hrs				
0.264×0.264	0.294×0.294	0.248×0.248				
350cd/m²	250cd/m ²	250cd/m²				
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, Windows 8, Windows 10, Linux					
	<5ms					
	Mohs 'Hardness 3H					
	250g / 35,000,000 times					
	250g / 5,000,000 times					
-20 ~ 60°C (-4~140°F)(W	/ide temperature SSD) / 0 ~ 45°C (32~113°F)(General	temperature HDD/SSD)				
	-30 ~ 80°C (-22~176°F)					
	5 ~ 95% RH@40°C (Non-condensation)					
Operating Rando	om Vibration Test 5~500Hz, 1.5Grms@with SSD, follo	w IEC 60068-2-64				
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27						
	CE/FCC Class B					
	Front nanel IP65					

TPC6000-AXX3 SERIES









Mo	odel No.	TPC6000-A103	TPC6000-A123	TPC6000-A153		
	CPU	Intel® Ce	leron® J6412 / 4205U / J1900 / Core™	i5 7200U		
	Main Frequency	Quad core 2.0GHz /	Dual Core 1.8GHz / Quad core 2.0GHz	: / Dual Core 2.5GHz		
	L3 Cache	1.5MB/2MB/2MB/3MB				
Processor	Chipset	Integrated PCH-LP				
	Memory	1×DDR4-2400MHz, max 16GB/1×DDR4-2400MHz, max 16GB/1×DDR3L-1333MHz, max 8GB/1×DDR3L-1600MHz, max 8GB				
	Storage interface	1×2.5 " SATA bay + $1\times$ mSATA				
	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			
I/O	СОМ	2×RS232 / RS485 with surge protection,RS485 support automatic flow control				
	Expansion slot	1×Mini-PCle slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot				
	I/O port	DVI-D / 2×GL	AN/4×USB/2×COM/2×PS2/Line	e-out / Mic-in		
	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")		
Physical	Cut out size(W×H)	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")	376mm×300mm (14.80"×11.81")		
	Net Weight	3.65kg	4.1kg	5.45kg		
os	OS	Windows 7, Windows	7 Embedded, Windows 8, Windows 10	, Linux, VxWorks, QNX		
	DC input	DC 12~24V±10%, support reve	rse polarity protection,overvoltage pro	otection,overcurrent protection		
Power	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")		
1.00	Backlight	WLED	WLED	WLED		
LCD	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 type		Resistive touch screen			
	Resolution		4096×4096			
	Transmittance		> 75%			
	Controller interface		USB			
Touchscreen	Driver Support	Windows 7, Windows 8, Windows 10, 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			
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide tem	perature SSD) / 0 ~ 45°C (32~113°F)(G	eneral temperature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C (-22~176°F)			
	Relative Humidity	5	5 ~ 95% RH@40°C (Non-condensation)			
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SSI	D, follow IEC 60068-2-64		
	Shock	Operating 20G pe	ak acceleration (11ms duration), follo	w IEC 60068-2-27		
	EMC	CE/FCC Class B				
	Water-proof		Front panel IP65			







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TPC6000-A173	TPC6000-A193	TPC6000-A2153
I	ntel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200	DU
Quad core 2	2.0GHz / Dual Core 1.8GHz / Quad core 2.0GHz / Dua	l Core 2.5GHz
	1.5MB/2MB/2MB/3MB	
	Integrated PCH-LP	
1×DDR4-2400MHz, max 16GB/	1×DDR4-2400MHz, max 16GB/1×DDR3L-1333MHz, max 80	GB/1×DDR3L-1600MHz, max 8GB
	1×2.5 " SATA bay + $1\times$ mSATA	
2×Intel 1000Mbps RJ-4	5 with surge protection, lightning protection design	and 15KV ESD protection
	Optional	
	4×USB3.0 / 2.0/1.1	
2×RS232 / R	S485 with surge protection,RS485 support automat	ic flow control
1×Min	i-PCIe slot, extensible 3G,WIFI wireless card; 1×Easy	/BUS 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
	indows 7 Embedded, Windows 8, Windows 10, Linux	
,	ort reverse polarity protection, overvoltage 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	376.3mm×301mm	476mm×268mm
(13.31"×10.63") WLED	(14.81"×11.85") WLED	(18.74"×10.55") WLED
50000hrs	30000hrs	50000hrs
0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	250cd/m ²	250cd/m²
1000:1	1000:1	1000:1
85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89
037 037 007 00	Resistive touch screen	037 037 037 03
	4096×4096	
	> 75%	
	USB	
	Windows 7, Windows8, Windows10, Linux	
	< 5ms	
	Mohs' Hardness 3H	
	250g / 35,000,000 times	
	250g / 5,000,000 times	
20 ~ 60°C (4~140°E\/M	/ide temperature SSD) / 0 ~ 45°C (32~113°F)(General	tomporature HDD/SSD)
-20 - 00 C (-4 -140 F)(V	-30 ~ 80°C (-22~176°F)	temperature HDD/33D/
	5 ~ 95% RH@40°C (Non-condensation)	
Operation Dend	5 ~ 95% RH@40 C (Non-condensation) om Vibration Test 5~500Hz, 1.5Grms@with SSD, follo	DW IEC 60069 2 64
Operating	g 20G peak acceleration (11ms duration), follow IEC CE/FCC Class B	00000-2-21
	Front panel IP65	

TPC6000-AXX2 SERIES









М	odel No.	TPC6000-A082	TPC6000-A102	TPC6000-A122			
	CPU		Intel® Celeron® J1900				
	Main Frequency		Quad core 2.0GHz				
Processor	L3 Cache	2MB					
Processor	Chipset	Intel Bay trail SOC					
	Memory		1×DDR3L-1333, max 8GB				
	Storage interface		1×2.5" SATA bay + 1×mSATA				
	Ethernet	2×Realtek 1000Mbps RJ-45以with	surge protection,lightning protectio	n design and 15KV ESD protection			
	Audio		Optional				
	USB		1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1				
I/O	COM	1×RS232 / 485 (COM1), 5×	RS232 (Optional 2xRS48,RS485 suppo	ort automatic flow control)			
	Expansion slot	1×Mir	ni-PCIe slot, extensible 3G,WIFI wireles	ss card			
	I/O port	VG	A/HDMI/2×GLAN/4×USB/6×CC	DM			
	Dimension (W×H×D)	236mm×188mm×69mm (9.29"×7.40"×2.72")	300.5mm×234.5mm×78mm (11.83"×9.23"×3.07")	321mm×243mm×78mm (12.64"×9.57"×3.07")			
Physical	Cut out size(W×H)	219mm×171mm (8.62"×6.73")	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")			
	Net Weight	2.4kg	3.3kg	3.85kg			
os	OS	Windows 7, Windows	7 Embedded, Windows 8, Windows 10), Linux, VxWorks, QNX			
	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)					
Power	Power Dissipation (Max.)	33Watt	33.6Watt	36.6Watt			
	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")			
LCD	Backlight	WLED	WLED	WLED			
LCD	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	(L) 75 / (R) 75 / (T) 75 / (B) 75	(L) 80 / (R) 80 / (T) 65 / (B) 75	(L) 80 / (R) 80 / (T) 80 / (B) 80			
	Touchscreen type		Resistive touch screen				
	Resolution		4096×4096				
	Transmittance		> 75%				
	Controller interface		USB				
Touchscreen	Driver Support	W	ndows 7, Windows8, Windows10, Lin	ux			
	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	-20 ~ 60°C (-4~140°F)(Wide tem	perature SSD) / 0 ~ 45°C (32~113°F)(G	ieneral temperature HDD/SSD)			
	Storage Temperature		-30 ~ 80°C (-22~176°F)				
	Relative Humidity	5	~ 95% RH@40°C (Non-condensation)			
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	D, follow IEC 60068-2-64			
	Shock	Operating 20G pe	ak acceleration (11ms duration), follo	w IEC 60068-2-27			
	EMC		CE/FCC Class B				
	Water-proof	Front panel IP65					









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TPC6000-A152	TPC6000-A172	TPC6000-A192	TPC6000-A2152		
	Intel® Celeron® J1900				
	Quad cor	re 2.0GHz			
	21	ИB			
	Intel Bay	trail SOC			
	1×DDR3L-13	33, max 8GB			
	1×2.5" SATA b	ay+1×mSATA			
2×Realtek 10	00Mbps RJ-45以with surge protection,l	lightning protection design and 15KV E	SD protection		
	Opti	onal			
	1×USB3.0/2.0/1	.1,3×USB2.0/1.1			
1×RS2	32 / 485 (COM1), 5×RS232 (Optional 2	xRS48,RS485 support automatic flow c	ontrol)		
	1×Mini-PCle slot, extensi	ible 3G,WIFI wireless card			
	VGA / HDMI / 2×GLA	, , , , , , , , , , , , , , , , , , , ,			
395mm×313mm×73mm (15.55"×12.32"×2.87") 376mm×300mm	434mm×342mm×73mm (17.09"×13.46"×2.87") 411mm×325mm	466mm×370mm×72mm (18.35"×14.57"×2.83") 443mm×352mm	550mm×342mm×79mm (21.65"×13.46"×3.11") 533mm×325mm		
(14.80"×11.81") 5.15kg	(16.18"×12.80") 6.05kg	(17.44"×13.86") 6.9kg	(20.98"×12.80") 8.18kg		
	indows 7, Windows 7 Embedded, Wind				
	DC 12V, support reverse polarit	, , , , , ,			
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 to	uch screen			
	4096>	<4096			
	> 7:	5%			
	US	SB			
	Windows 7, Windows	s8, Windows10, Linux			
		ms			
		rdness 3H			
	250g / 35,00				
	250g / 5,000				
-20 ~ 60°C	(-4~140°F)(Wide temperature SSD) / 0 ~		HUU/SSU)		
	-30 ~ 80°C (
^	5 ~ 95% RH@40°C (,	2.64		
Ope	rating Random Vibration Test 5~500Hz		Z-04		
		Lms duration), follow IEC 60068-2-27			
		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 deisgn, 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".

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Rugged industrial grade design

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



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 industrial applications.



Neutral front Panel

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



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.



Projected capacitive touch screen

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



Supports EtherCAT and Jumbo Frames

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



Flexible modular design

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



DC12V/24V Power input

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



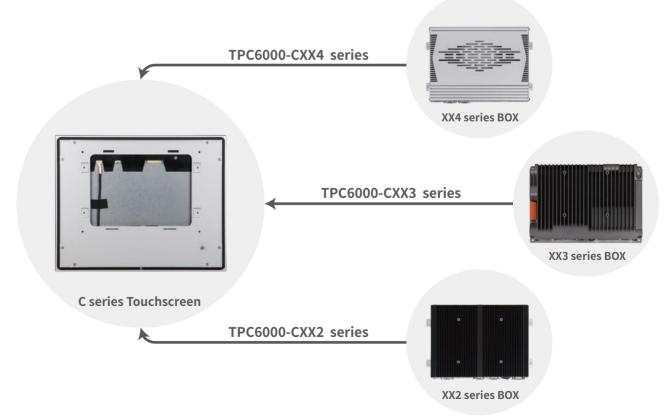
Easybus design

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



Vaiour mounting options

VESA Mount, Panel Mount, etc.



TPC6000-CXX4 SERIES







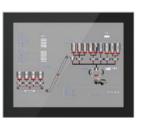




Mo	odel No.	TPC6000-C104	TPC6000-C124	TPC6000-C154	TPC6000-C1564		
	CPU	Intel® Core™ 6/7/8	/9th i7/i5/i3,Pentium® and	Celeron® LGA1151 type CPU	J. Max.65W TDP		
	BIOS		AMI UEFI	64Mbit			
Processor	Chipset		H11	0			
	Memory		DDR4-2400 MHz, 2×SO-I	DIMM Slot, Up to 32GB			
	Storage interface		1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA				
	Ethernet	3×Intel 10/100/1000Mbps controller					
	USB		4×USB3.0/2×USB2.0				
I/O	СОМ	4×RS232 / RS485	Interface with surge protect	tion, RS485 support automa	tic flow control		
	Expansion slot		1×Mini-PCle slot, extensib	le 3G, WIFI wireless card			
	I/O port	8DI +	8DO Wet contact input (24V), OC gate output (24V 300m	nA)		
	Dimension(W×H×D)	298.5mm×238.5mm×74mm (11.75"×9.38"×2.91")	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")		
Physical	Cut out size(W×H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")		
	Net Weight	3.4kg	3.7kg	4.7kg	5.2kg		
os	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX					
_	DC input	DC 12~24V±10%, suppo	ort reverse polarity protection	n, overvoltage protection, o	vercurrent protection		
Power	Idle Mode Power Consumption 25Watt 25Watt 28Wat				30Watt		
	LCD Type	10.4" XGA TFT	12.1" XGA TFT	15" XGA TFT	15.6" TFT		
	Resolution	1024×768	1024×768	1024×768	1366×768		
	Colors	16.7MB	16.7MB	16.2MB	16.7MB		
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55' x 7.62")		
LCD	Backlight	LED	WLED	WLED	LED		
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs		
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.297×0.297	0.252×0.252		
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²	400cd/m ²		
	Contrast Ratio	900:1	800:1	700:1	800:1		
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80		
	Touchscreen type		Capacitive To	uchscreen			
	Transmittance		> 879	%			
Touchscreen	Controller interface		USE	3			
Touchscreen	Driver Support		Windows7, Windws 8,	Windows 10, Linux			
	Multi-touch		10 points (wind	ows system)			
	Surface Hardness		Mohs'Hard	Iness 7H			
	Work Temperature	-20 ~ 60°C (-4~140°F)(V	Vide temperature SSD) / 0 ~ 4	45°C (32~113°F)(General tem	perature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C (-2	22~176°F)			
	Relative Humidity		5~95% RH@40°C (N	on-condensation)			
Environmental	Vibration	Operating Rand	om Vibration Test 5~500Hz, I	1.5Grms@with SSD, follow IE	EC 60068-2-64		
	Shock	Operating	g 20G peak acceleration (11n	ns duration), follow IEC 6006	68-2-27		
	EMC		CE/FCC C	Class B			
	Water-proof		Front pan	el IP65			









1PC6000-C174	TPC6000-C174	TPC6000-C1854	TPC6000-C194	TPC6000-C2154
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Intel® Core™ 6/7/8/9th i7/i5/i3, Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP

AMI UEFI 64Mbit

H110

DDR4-2400 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

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)

428mm×342mm×74mm	480mm×304mm×74mm	460mm×369mm×74mm	550mm×342mm×74mm
(16.85"×13.46"×2.91")	(18.90"×11.97"×2.91")	(18.11"×14.53"×2.91")	(21.65"×13.46"×2.91")
411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
5.7kg	5.9kg	6.5kg	6.9kg

Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX

DC 12~24V \pm 10% , support reverse polarity protection, overvoltage protection, overcurrent protection				
30Watt	34Watt	37Watt	40Watt	
17" SXGA TFT	18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT	
1280×1024	1366×768	1280×1024	1920×1080	
16.7MB	16.7MB	16.7MB	16.7MB	
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")	
WLED	WLED	WLED	WLED	
50000hrs	50000hrs	30000hrs	50000hrs	
0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248	
350cd/m ²	450cd/m ²	250cd/m ²	250cd/m ²	
1000:1	1000:1	1000:1	1000:1	
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

 $-20 \sim 60 ^{\circ} \text{C } (-4 \sim 140 ^{\circ} \text{F}) \\ \text{(Wide temperature SSD)} / 0 \sim 45 ^{\circ} \text{C } \\ \text{(32} \sim 113 ^{\circ} \text{F)} \\ \text{(General temperature HDD/SSD)} \\ \text{(32} \sim 113 ^{\circ} \text{F)} \\ \text{(4)} \sim 140 ^{\circ} \text{F)} \\ \text{(5)} \sim 140 ^{\circ} \text{F)} \\ \text{(5)} \sim 140 ^{\circ} \text{F)} \\ \text{(6)} \sim 140 ^{\circ} \text{F)} \\ \text{(7)} \sim 140 ^{\circ} \text{F)} \\ \text{(8)} \sim 140 ^{\circ} \text{F)} \\ \text{(9)} \sim 140 ^{\circ} \text{F)} \\ \text{(10)} \sim 140 ^{\circ} \text{F} \\ \text{(10)} \sim 140 ^{\circ}$

-30 ~ 80°C (-22~176°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

23 2.

TPC6000-CXX3 SERIES









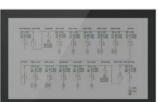


М	odel No.	TPC6000-C1043	TPC6000-C123	TPC6000-C153	TPC6000-C1563	
	CPU		Intel® Celeron® J6412 / 4205	U / J1900 / Core™ i5 7200U		
	Main Frequency	Quad core	2.0GHz / Dual Core 1.8GHz /	Quad core 2.0GHz / Dual C	Core 2.5GHz	
_	L3 Cache		1.5MB/2MB	/2MB/3MB		
Processor	Chipset		Integrated	J PCH-LP		
	Memory	1×DDR4-2400MHz, max 16GB,	1×DDR4-2400MHz, max 16GB/	1×DDR3L-1333MHz, max8GB	/1×DDR3L-1600MHz, max 8GB	
	Storage interface	1×2.5" SATA bay+1×mSATA				
	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
	Audio		Optio	onal		
1/0	USB		4×USB3.0)/2.0/1.1		
	СОМ	2×RS232/	RS485 with surge protection	,RS485 support automatic	flow control	
	Expansion slot	1×Mir	ni-PCIe slot, extensible 3G,W	IFI wireless card; 1×EasyBl	US slot	
	I/O port	DVI-[$0/2 \times GLAN/4 \times USB/2 \times C$		ic-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")	371mm×295mm×66mm (14.60"×11.61"×2.60")	405mm×258mm×66mm (15.94"×10.16"×2.60")	
	Cut out size(W×H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")	
	Net Weight	3.46kg	3.54kg	4.54kg	4.8kg	
os	OS	Windows 7, V	/indows 7 Embedded, Wind	ows 8, Windows 10, Linux, \	/xWorks, QNX	
Dawar	DC input	DC 12~24V±10%, support reverse polarity protection, overvoltage protection, overcurrent protect				
Power	Power Dissipation (Max.)	35Watt	37Watt	36.6Watt	42Watt	
	LCD Type	10.4" XGA TFT	12.1" XGA TFT	15" XGA TFT	15.6" TFT	
	Resolution	1024×768	1024×768	1024×768	1366×768	
	Colors	16.7MB	16.7MB	16.2MB	16.7MB	
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55' x 7.62")	
1.00	Backlight	LED	WLED	WLED	LED	
LCD	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs	
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.297×0.297	0.252×0.252	
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²	400cd/m ²	
	Contrast Ratio	900:1	800:1	700:1	800:1	
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80	
	Touchscreen type		Capacitive T	ouchscreen		
	Transmittance		> 87	7%		
Touchscreen	Controller interface		US	В		
Touchscreen	Driver Support		Windows7, Windws 8	, Windows 10, Linux		
	Multi-touch		10 points (win	dows system)		
	Surface Hardness		Mohs'Har	dness 7H		
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~	45°C (32~113°F)(General te	emperature HDD/SSD)	
	Storage Temperature		-30 ~ 80°C (-22~176°F)		
	Relative Humidity		5 ~ 95% RH@40°C (N			
Environmental	Vibration	Operating Ranc	lom Vibration Test 5~500Hz,	1.5Grms@with SSD, follow	IEC 60068-2-64	
	Shock	Operatin	g 20G peak acceleration (11	ms duration), follow IEC 60	068-2-27	
	EMC		CE/FCC	Class B		
	Water-proof		Front pa	nel IP65		









12mignithins				
TPC6000-C173	TPC6000-C1853	TPC6000-C193	TPC6000-C2153	
	Intel® Celeron® J6412 / 42	205U / J1900 / Core™ i5 7200U		
	Quad core 2.0GHz / Dual Core 1.8GH	Hz / Quad core 2.0GHz / Dual Core 2.5G	Hz	
	1.5MB/2I	MB/2MB/3MB		
	Integra	ited PCH-LP		
1×DDR4-2400I	MHz, max 16 GB $/1 imes$ DDR4-2400MHz, max 16 C	GB/1×DDR3L-1333MHz, max8GB/1×DDR3	BL-1600MHz, max 8GB	
	1×2.5" SATA	A bay + 1×mSATA		
2×Intel	1000Mbps RJ-45 with surge protection,	lightning protection design and 15KV E	SD protection	
	Ol	ptional		
	4×USE	33.0 / 2.0/1.1		
	2×RS232 / RS485 with surge protecti	ion,RS485 support automatic flow con	trol	
	1×Mini-PCIe slot, extensible 3G	G,WIFI wireless card; 1×EasyBUS slot		
	, , , ,	×COM/2×PS2/Line-out/Mic-in		
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")	
411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")	
5.54kg	5.8kg	6.38kg	6.76kg	
	Windows 7, Windows 7 Embedded, Wi	ndows 8, Windows 10, Linux, VxWorks,	QNX	
DC 12~24	$V\pm 10\%$, support reverse polarity prote	ection, overvoltage protection, overcur	rent protection	
38.6Watt	40.6Watt	42.6Watt	48Watt	
17" SXGA TFT	18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT	
1280×1024	1366×768	1280×1024	1920×1080	
16.7MB	16.7MB	16.7MB	16.7MB	
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")	
WLED	WLED	WLED	WLED	
50000hrs	30000hrs	30000hrs	50000hrs	
0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248	
350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²	
1000:1	1000:1	1000:1	1000:1	
(L) 85 / (R) 85 / (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	
	Capacitiv	e Touchscreen		
	>	> 87%		
		USB		
	Windows7, Windw	vs 8, Windows 10, Linux		
	10 points (v	vindows system)		
	Mohs'	Hardness 7H		
-20 ~ 60	°C (-4~140°F)(Wide temperature SSD) /	0 ~ 45°C (32~113°F)(General temperatu	ire HDD/SSD)	
	-30 ~ 80°	°C (-22~176°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

 \sim 25

TPC6000-CXX2 SERIES







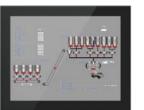




Mo	odel No.	TPC6000-C1042	TPC6000-C122	TPC6000-C152	TPC6000-C1562		
	CPU		Intel® Cele	ron [®] J1900			
	Main Frequency		Quad cor	re 2.0GHz			
Drasassar	L3 Cache		2MB				
Processor	Chipset	Intel Bay trail SOC					
	Memory	1×DDR3L-1333, max 8GB					
	Storage interface	1×2.5" SATA bay + 1×mSATA					
	Ethernet	2×Realtek 1000Mbps RJ	-45以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			
I/O	СОМ	1×RS232 / 485 (C	OM1), 5×RS232 (Optional 2	xRS48,RS485 support auton	natic flow control)		
	Expansion slot		1×Mini-PCle slot, extens	ible 3G,WIFI wireless card			
	I/O port	VGA/HDMI/2×GLAN/4×USB/6×COM					
	Dimension(W×H×D) 298.5mm×238.5mm×65mm 321mm×247mm×75mm 371mm×295n (11.75"×9.38"×2.60") (12.64"×9.72"×2.95") (14.60"×11.6				405mm×258mm×75mm (15.94"×10.16"×2.95")		
Physical	Cut out size(W×H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.44")		
	Net Weight	3.46kg	3.34kg	4.34kg	4.8kg		
os	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX					
	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)					
Power	Power Dissipation (Max.)	34.6Watt	36.6Watt	38.6Watt	38.6Watt		
	LCD Type	10.4" XGA TFT	12.1" XGA TFT	15" XGA TFT	15.6" TFT		
	Resolution	1024×768	1024×768	1024×768	1366×768		
	Colors	16.7MB	16.7MB	16.2MB	16.7MB		
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55' x 7.62")		
	Backlight	LED	WLED	WLED	LED		
LCD	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs		
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.297×0.297	0.252×0.252		
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²	400cd/m ²		
	Contrast Ratio	900:1	800:1	700:1	800:1		
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80		
	Touchscreen type		Capacitive 7	ouchscreen			
	Transmittance		> 8	7%			
Tauahaanaan	Controller interface		US	SB			
Touchscreen	Driver Support		Windows7, Windws	8, Windows 10, Linux			
	Multi-touch		10 points (win	idows system)			
	Surface Hardness		Mohs'Ha	rdness 7H			
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~	~ 45°C (32~113°F)(General te	emperature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C	(-22~176°F)			
	Relative Humidity		5~95% RH@40°C (Non-condensation)			
Environmental	Vibration	Operating Rand	dom Vibration Test 5~500Hz	, 1.5Grms@with SSD, follow	IEC 60068-2-64		
	Shock	Operatir	g 20G peak acceleration (11	Lms duration), follow IEC 60	068-2-27		
	EMC		CE/FCC	Class B			
	Water-proof		Front pa	inel IP65			









TPC6000-C172	TPC6000-C1852	TPC6000-C192	TPC6000-C2152		
	Intel® Celeron® J1900				
	Quad cor	re 2.0GHz			
	2N	ИВ			
	Intel Bay	trail SOC			
	1×DDR3L-13	33, max 8GB			
	1×2.5" SATA b	ay+1×mSATA			
2×Realtek 10	00Mbps RJ-45以with surge protection,	lightning protection design and 15KV E	SD protection		
	Opti	onal			
	1×USB3.0/2.0/1	.1, 3×USB2.0 / 1.1			
1×RS2	232 / 485 (COM1), 5×RS232 (Optional 2	xRS48,RS485 support automatic flow c	ontrol)		
	1×Mini-PCle slot, extens	ible 3G,WIFI wireless card			
	VGA / HDMI / 2×GLA	N/4×USB/6×COM			
428mm×342mm×75mm	480mm×304mm×75mm (18.90"×11.97"×2.95")	460mm×369mm×75mm	550mm×342mm×75mm (21.65"×13.46"×2.95")		
(16.85"×13.46"×2.95") 411mm×325mm (16.18"×12.80")	(18.23"×11.30")	(18.11"×14.53"×2.95") 442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")		
5.34kg	5.8kg	6.18kg	6.76kg		
	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, ONX				
	DC 12V, support reverse polarity protection, +9~+30V (Option)				
40.6Watt					
17" SXGA TFT	18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT		
1280×1024	1366×768	1280×1024	1920×1080		
16.7MB	16.7MB	16.7MB	16.7MB		
338mm×270mm	409.8mm×230.4mm	376.3mm×301mm	476mm×268mm		
(13.31"×10.63") WLED	(16.13"×9.07") WLED	(14.81"×11.85") WLED	(18.74"×10.55") WLED		
50000hrs	30000hrs	30000hrs	50000hrs		
0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248		
350cd/m ²	250cd/m ²	250cd/m ²	250cd/m ²		
1000:1	1000:1	1000:1	1000:1		
(L) 85 / (R) 85 / (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		
(E) 65 / (N) 65 / (1) 60 / (B) 60		ouchscreen	(L) 63 / (N) 63 / (1) 63 / (D) 63		
	,				
	> 8 U\$				
		3, Windows 10, Linux			
	10 points (win				
20 - 6006	Mohs' Ha $(-4\sim140^{\circ}F)$ (Wide temperature SSD) / 0 $^{\circ}$		HDD/CCD/		
-20 ~ 60°C		, , , , , , , , , , , , , , , , , , , ,	(מככ /ממח		
	-30 ~ 80°C (
^	5 ~ 95% RH@40°C (2.64		
Оре	rating Random Vibration Test 5~500Hz		2-04		
	Operating 20G peak acceleration (11				
	CE/FCC	Class B			

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 deisgn, 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".

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Rugged industrial grade design

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



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 industrial applications.



Neutral front Panel

click life is 50 million times.

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

5-wire resistive touch, with water, dust, oil proof,



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.



Flexible modular design

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

5-wire resistive touch screen



DC12V/24V Power input

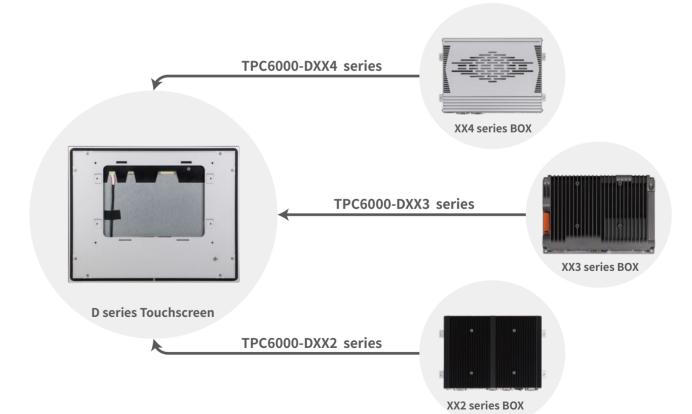
DC 12V power input, optional DC24V, with surge power, over voltage and reverse polarity protection, with phoenix terminal contact.



Vaiour mounting options

VESA Mount,PanelMount, etc.

















M	odel No.	TPC6000-D124	TPC6000-D154	TPC6000-D1564	TPC6000-D174	
	CPU	Intel® Core™ 6/7/	/8/9th i7/i5/i3,Pentium® a	nd Celeron® LGA1151 type C	PU. Max.65W TDP	
	BIOS		AMI UEF	FI 64Mbit		
Processor	Chipset		H.	110		
	Memory		DDR4-2400 MHz, 2×SC	O-DIMM Slot, Up to 32GB		
	Storage interface		1×M.2 (M Key 2280 PCIe 0	Gen3×4 Lane) + 1×mSATA		
	Ethernet		3×Intel 10/100/1	000Mbps controller		
	USB	4×USB3.0/2×USB2.0				
I/O	СОМ	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control				
	Expansion slot		1×Mini-PCle slot, extens	sible 3G, WIFI wireless card		
	I/O port	8DI	+ 8DO Wet contact input (24	4V) , OC gate output (24V 300	lmA)	
	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")	
Physical	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, V	Windows 7 Embedded, Wind	dows 8, Windows 10, Linux, V	/xWorks, QNX	
	DC input	DC 12~24V±10%, Support reverse connection protection, over voltage protection, over current				
Power	Idle Mode Power Consumption	25Watt	28Watt	28Watt	30Watt	
	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' x 7.62")	338mm×270mm (13.31"×10.63")	
	Backlight	WLED	WLED	LED	WLED	
LCD	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	85/85/50/80	85/85/80/80		
	Touchscreen type		Resistive to	ouch screen		
	Resolution		4096	×4096		
	Transmittance		> 7	75%		
	Controller interface		U	SB		
Touchscreen	Driver Support		Windows 7, Window	s8, Windows10, Linux		
Touchiser ceri	Response Time		< [ōms		
	Surface Hardness		Mohs' Ha	ırdness 3H		
	Click Life		250g / 35,0	00,000 times		
	Draw life		250g/5,00	0,000 times		
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~ 45°C (32~113°F)(General temperature HDD/SSD)				
	Storage Temperature		-30 ~ 80°C	(-22~176°F)		
	Relative Humidity		5 ~ 95% RH@40°C	(Non-condensation)		
Environmental	Vibration	Operating Ran	dom Vibration Test 5~500Hz	z, 1.5Grms@with SSD, follow	IEC 60068-2-64	
	Shock	Operati	ng 20G peak acceleration (1	1ms duration), follow IEC 60	068-2-27	
	EMC		CE/FCC	Class B		
	Water-proof		Front pa	anel IP65		











M	odel No.	TPC6000-D123	TPC6000-D153	TPC6000-D1563	TPC6000-D173	
	CPU		Intel® Celeron® J6412 / 4205	5U / J1900 / Core™ i5 7200U		
	Main Frequency	Quad core	e 2.0GHz / Dual Core 1.8GHz	/ Quad core 2.0GHz / Dual C	ore 2.5GHz	
Processor	L3 Cache		1.5MB/2ME	B/2MB/3MB		
	Chipset		Integrate	d PCH-LP		
	Memory	1×DDR4-2400MHz, max 16GB	/1×DDR4-2400MHz, max 16GB	/1×DDR3L-1333MHz, max 8GB,	/1×DDR3L-1600MHz, max 8GB	
	Storage interface		1×2.5" SATA b	ay+1×mSATA		
	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection				
	Audio		Opti	onal		
I/O	USB		4×USB3.	0 / 2.0/1.1		
, -	СОМ	2×RS232/	RS485 with surge protection	n,RS485 support automatic	flow control	
	Expansion slot	1×Mi	ni-PCIe slot, extensible 3G,W	'IFI wireless card; 1×EasyBl	JS slot	
	I/O port	DVI-	D/2×GLAN/4×USB/2×0	COM / 2×PS2 / Line-out / M	ic-in	
	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")	
Physical	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, V	Windows 7 Embedded, Wind	ows 8, Windows 10, Linux, V	/xWorks, QNX	
	DC input	DC 12~24V±10%, support reverse polarity protection,overvoltage protection,overcurrent protection				
Power	Power Dissipation (Max.)	36.6Watt	38.6Watt	<48Watt	40.6Watt	
	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' x 7.62")	338mm×270mm (13.31"×10.63")	
LCD	Backlight	WLED	WLED	LED	WLED	
LCD	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 type		Resistive to	uch screen		
	Resolution		4096>	<4096		
	Transmittance		> 7	5%		
	Controller interface	USB				
Touchscreen	Driver Support		Windows 7, Windows	s8, Windows10, Linux		
	Response Time (touch Pen)			ms		
	Surface Hardness			rdness 3H		
	Click Life		250g / 35,00	0,000 times		
	Draw life			0,000 times		
	Work Temperature	-20 ~ 60°C (-4~140°F)((Wide temperature SSD) / 0 ~		mperature HDD/SSD)	
	Storage Temperature			(-22~176°F)		
	Relative Humidity		5 ~ 95% RH@40°C (,		
Environmental	Vibration	1 0	dom Vibration Test 5~500Hz	, ,		
	Shock	Operatir	ng 20G peak acceleration (11		068-2-27	
	EMC		,	Class B		
	Water-proof		Front pa	nel IP65		

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TPC6000-DXX2 SERIES











M	odel No.	TPC6000-D122	TPC6000-D152	TPC6000-D1562	TPC6000-D172		
	CPU	Intel® Celeron® J1900					
	Main Frequency		Quad cor	re 2.0GHz			
Processor	L3 Cache		2N				
110003301	Chipset		Intel Bay				
	Memory		1×DDR3L-13				
	Storage interface	1×2.5" SATA bay + 1×mSATA					
	Ethernet	2 × Paaltak 1000Mhns P			and 15KV ESD protection		
	Audio	2×Realtek 1000Mbps RJ-45以with surge protection, lightning protection design and 15KV ESD protection Optional					
	USB	1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1					
I/O	COM	1 × PS232 / 485 (C	COM1), 5×RS232 (Optional 2)		natic flow control)		
	Expansion slot	1 / 1/3232 / 403 (C	1×Mini-PCle slot, extensi		latic flow control)		
	I/O port	321mm×247mm×75mm	VGA / HDMI / 2×GLAI	405mm×258mm×75mm	428mm×342mm×75mm		
Phonical	Dimension (W×H×D)	(12.64"×9.72"×2.95") 304mm×230mm	(14.60"×11.61"×2.95") 354mm×278mm	(15.94"×10.16"×2.95") 387mm×240mm	(16.85"×13.46"×2.95") 411mm×325mm		
Physical	Cut out size(W×H)	(11.97"×9.06")	(13.94"×10.94")	(15.24"×9.44")	(16.18"×12.80")		
0.5	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 Power Dissipation	DC 12V, support reverse polarity protection, +9~+30V (Option)					
	(Max.)	36.6Watt	38.6Watt	38.6Watt	40.6Watt		
	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' x 7.62")	338mm×270mm (13.31"×10.63")		
LCD	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 type		Resistive to	uch screen			
	Resolution	4096×4096					
	Transmittance		> 7	5%			
	Controller interface		US	SB			
Touchscreen	Driver Support		Windows 7, Windows	8, Windows10, Linux			
	Response Time (touch Pen)		< 5	ms			
	Surface Hardness		Mohs'Har	rdness 3H			
	Click Life		250g/35,00	0,000 times			
	Draw life		250g / 5,000	0,000 times			
	Work Temperature	-20 ~ 60°C (-4~140°F)	(Wide temperature SSD) / 0 ~	45°C (32~113°F)(General te	mperature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C (-22~176°F)			
	Relative Humidity		5 ~ 95% RH@40°C (I	Non-condensation)			
Environmental	Vibration	Operating Ran	dom Vibration Test 5~500Hz,	1.5Grms@with SSD, follow	IEC 60068-2-64		
	Shock	Operation	ng 20G peak acceleration (11	ms duration), follow IEC 600	068-2-27		
	EMC		CE/FCC	Class B			
	Water-proof		Front pa				



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 with stand 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".

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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



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.



Supports EtherCAT and Jumbo Frames

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



Flexible modular design

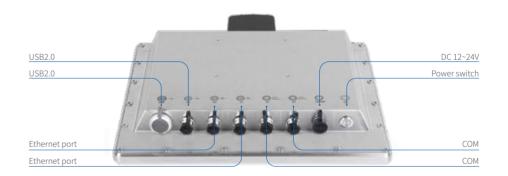
50 million times.

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.



WPXXXXT-R1 SERIES WPXXXXT-C SERIES







Mo	odel No.	WP1501T-R1	WP1901T-R1	WP2151T-R1			
	CPU		Intel® Celeron® J1900				
	Main Frequency		Quad core 2.0GHz				
Processor	L3 Cache	2MB					
	Chipset		Intel Bay trail SOC				
	Memory		1×DDR3L-1333, max 8GB				
	Storage interface	1×mSATA					
	Ethernet	net 2×Intel 1000Mbps					
	Audio	NULL					
I/O	USB		2×USB2.0				
	COM	2:	×RS232(option RS485 before orderin	g)			
	Expansion slot		, Option either Wifi or 4G/3G module				
	Dimension (W \times H \times 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")			
Physical	Mounting	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA			
	Net Weight	5.4kg	7.9kg	8.6kg			
os	OS	W	indows7, Windows8, Windows10, Lin	ux			
_	DC input	DC 12~24V±10%, Support reverse connection protection, over current protection					
Power	Idle Mode Power Consumption	38.6Watt	42Watt	46Watt			
	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")			
LCD	Backlight	WLED	WLED	WLED			
LCD	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 type		Resistive touch screen				
	Resolution		4096×4096				
	Transmittance		> 75%				
	Controller interface		USB				
Touchscreen	Driver Support	W	indows 7, Windows8, Windows10, Lin	ux			
	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	-20 ~ 60°C (-4~140°F)(Wide tem	perature SSD) / 0 ~ 45°C (32~113°F)(6	General temperature HDD/SSD)			
	Storage Temperature		-30 ~ 80°C (-22~176°F)				
	Relative Humidity		5 ~ 95% RH@40°C (Non-condensation	1)			
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	5D, follow IEC 60068-2-64			
	Shock	Operating 20G pe	ak acceleration (11ms duration), follo	ow IEC 60068-2-27			
	EMC		CE/FCC Class B				
	Water-proof		The whole machine IP69K				







М	odel No.	WP1501T-C	WP1901T-C	WP2151T-C		
	CPU		Intel® Celeron® J1900			
	Main Frequency		Quad core 2.0GHz			
Processor	L3 Cache	2MB				
	Chipset		Intel Bay trail SOC			
	Memory	1×DDR3L-1333, max 8GB				
	Storage interface		1×mSATA			
	Ethernet		2×Intel 1000Mbps			
	Audio		NULL			
1/0	USB		2×USB2.0			
I/O	COM	2	×RS232(option RS485 before orderin	g)		
	Expansion slot	Mini-PCIe slo	t, Option either Wifi or 4G/3G module	(Default: wifi)		
	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")		
Physical	Cut out size(W×H)	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VES		
	Net Weight	5.3kg	7.9kg	8.6kg		
os	OS	W	indows7, Windows8, Windows10, Lin	UX		
	DC input	DC 12~24V±10% , Support reverse connection protection, over current protection				
Power	Power Dissipation (Max.)	38.6Watt	42Watt	46Watt		
	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		
LCD	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 type		Capacitive Touchscreen			
	Transmittance		> 87%			
	Controller interface		USB			
Touchscreen	Driver Support	W	/indows7, Windws 8, Windows 10, Lin	ux		
	Multi-touch		10 points (windows system)			
	Surface Hardness		Mohs'Hardness 7H			
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide ten	nperature SSD) / 0 ~ 45°C (32~113°F)(6	General temperature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C (-22~176°F)			
	Relative Humidity	Į	5 ~ 95% RH@40°C (Non-condensation	n)		
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	5D, follow IEC 60068-2-64		
	Shock	Operating 20G pe	eak acceleration (11ms duration), follo	ow 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: -20°C~60°C

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



Vaiour mounting options

Support Panel mounted and Wall mounted with VESA

Display module option:



PANEL5000-A Series

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



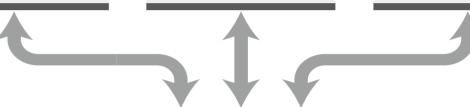
PANEL5000-C Series

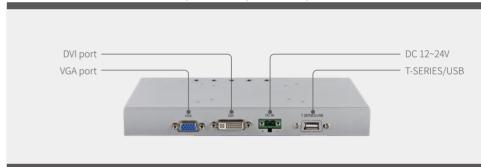
Capacitive touch screen monitor, optional size:10.4",12.1",15",15.6",17" 18.5", 19"and 21.5".



PANEL5000-D Series

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







PANEL5000-AXX2



PANEL5000-CXX2



PANEL5000-DXX2



PANEL5000-AXX2 SERIES







М	odel No.	PANEL5000-A082	PANEL5000-A102	PANEL5000-A122			
	Control button	Set Contras	t 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	n alloy, anodized coating ;Back cover:	SGCC, Ground isolation protection			
General	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 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")			
LCD	Backlight	WLED	WLED	WLED			
LCD	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 type		Resistive touch screen				
	Resolution	4096×4096					
	Transmittance	> 75%					
	Controller interface	USB					
Touchscreen	Driver Support	Windows 7, Windows 8, Windows 10, 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					
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~ 45°C (32~113°F)(General temperature HDD/SSD)					
	Storage Temperature		-30 ~ 80°C (-22~176°F)				
	Relative Humidity	5	5 ~ 95% RH@40°C (Non-condensation	1)			
Environmental	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	SD, follow IEC 60068-2-64			
	Shock	Operating 20G pe	ak acceleration (11ms duration), follo	ow IEC 60068-2-27			
	EMC		CE/FCC Class B				
	Water-proof		Front panel IP65				









iD at the back panel	
466mm×370mm×53mm (18.35"×14.57"×2.09")	550mm×342mm×60mm (21.65"×13.46"×2.36")
443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
((18.35"×14.57"×2.09") 443mm×352mm

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)			
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			

Resistive touch screen

4096×4096

> 75% USB

Windows 7, Windows 8, Windows 10, Linux

< 5ms

Mohs' Hardness 3H

250g / 35,000,000 times

250g / 5,000,000 times

 $-20 \sim 60 ^{\circ} \text{C (-4} \sim 140 ^{\circ} \text{F)(Wide temperature SSD) / 0} \sim 45 ^{\circ} \text{C (32} \sim 113 ^{\circ} \text{F)(General temperature HDD/SSD)}$

-30 ~ 80°C (-22~176°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-C152	PANEL5000-C1562			
	Control button	Set	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")	371mm×295mm×47mm (14.60"×11.61"×1.85")	405mm×258mm×47mm (15.94"×10.16"×1.85")			
	Drill Hole Size (W x H)	280.5mm×220.5mm (11.04"×8.68")	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	387mm×240mm (15.24"×9.45")			
	Box structure	Front panel: aluminum-ma	agnesium alloy, anodized co	ating ;Back cover: SGCC, G	round isolation protection			
General	Mounting	Supp	Support Embedded,wall-mounted,Desktop and VESA mounting					
	Power Supply		Phoenix terminal:	DC 12~24V input				
	Power Dissipation	6W	8W	10W	12W			
	Signal input		VGA &	DVI-D				
	Net Weight	2.34kg (5.16lb)	2.34kg (5.16lb)	3.34kg (7.36lb)	3.8kg (8.38lb)			
	LCD Type	10.4" XGA TFT	12.1" XGA TFT	15" XGA TFT	15"TFT			
	Resolution	1024×768	1024×768	1024×768	1366×768			
LCD	Colors	16.7MB	16.7MB	16.2MB	16.7MB			
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	344.232mm×193.536mm (13.55' x 7.62")			
	Backlight	LED	WLED	WLED	LED			
	MTBF (hour)	30000hrs	30000hrs	50000hrs	50000hrs			
	Pixel Pitch (H×V)	0.206×0.206	0.240×0.240	0.297×0.297	0.252×0.252			
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²	400cd/m ²			
	Contrast Ratio	900:1	800:1	700:1	800:1			
	Viewing Angle	75 / 75 / 75 / 75	80 / 80 / 80 / 80	80 / 80 / 80 / 80	85 / 85 / 50 / 80			
	Touchscreen type		Multi-point capaci	tive touch screen				
	Transmittance		> 87	7%				
Touchscreen	Controller interface		US	В				
Touchiser cen	Driver Support		Windows7, Windws 8	rindws 8, Windows 10, Linux				
	Multi-touch	10 points (windows system)						
	Surface Hardness		Mohs'Har	dness 7H				
	Work Temperature	-20 ~ 60°C (-4~140°F)(V	Vide temperature SSD) / 0 ~	45°C (32~113°F)(General te	mperature HDD/SSD)			
	Work Temperature $-20 \sim 60^{\circ}\text{C} (-4 \sim 140^{\circ}\text{F}) \text{(Wide temperature SSD)} / 0 \sim 45^{\circ}\text{C} (32 \sim 113^{\circ}\text{F}) \text{(General temperature Storage Temperature})}$ Storage Temperature $-30 \sim 80^{\circ}\text{C} (-22 \sim 176^{\circ}\text{F})$							
	Relative Humidity		5~95% RH@40°C (N	Non-condensation)				
Environmental	Vibration	Operating Rand	om Vibration Test 5~500Hz,	1.5Grms@with SSD, follow	IEC 60068-2-64			
	Shock	Operatin	g 20G peak acceleration (11	ms duration), follow IEC 60	068-2-27			
	EMC		CE/FCC	Class B				
	Water-proof	Front panel IP65						









PANEL5000-C172	PANEL5000-C1852	PANEL5000-C192	PANEL5000-C2152	
	Set Contrast ratio and Lumina	nce via OSD at the back panel		
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")	
411mm×325mm (16.18"×12.80")	463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")	
	minum-magnesium alloy, anodized co	, , ,		
Support Embedded,wall-mounted,Desktop and VESA mounting				
	Phoenix terminal:	DC 12~24V input		
12W	10W	14W	17W	
VGA & DVI-D				
4.34kg (9.57lb)	4.6kg (1.014lb)	5.18kg (11.42lb)	5.56kg (12.26lb)	
17" SXGA TFT	18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT	
1280×1024	1366×768	1280×1024	1920×1080	
16.7MB	16.7MB	16.7MB	16.7MB	
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")	
WLED	WLED	WLED	WLED	
50000hrs	50000hrs	30000hrs	50000hrs	
0.264×0.264	0.300×0.300	0.294×0.294	0.248×0.248	
350cd/m ²	450cd/m²	250cd/m ²	250cd/m ²	
1000:1	1000:1	1000:1	1000:1	
85 / 85 / 80 / 80	85 / 85 / 80 / 80	85 / 85 / 80 / 80	89 / 89 / 89 / 89	
	Multi-point capaci	tive touch screen		
	> 87	7%		
	US	SB SB		
	Windows7, Windws 8	8, Windows 10, Linux		
	10 points (wind	dows system)		
	Mohs'Har	dness 7H		
-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 ~	45°C (32~113°F)(General temperature	HDD/SSD)	
	-30 ~ 80°C (-22~176°F)		
	5~95% RH@40°C (N	Non-condensation)		
Oper	ating Random Vibration Test 5~500Hz,	1.5Grms@with SSD, follow IEC 60068-	2-64	
	Operating 20G peak acceleration (11	ms duration), follow IEC 60068-2-27		
	CE/FCC	Class B		
	Front pa	nel IP65		

PANEL5000-DXX2 SERIES









Model No.		PANEL5000-D122	PANEL5000-D152	PANEL5000-D1562	PANEL5000-D172		
	Control button	Se	et Contrast ratio and Lumina	nce via OSD at the back pan	el		
	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					
General	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 Type	12.1" XGA TFT	15" XGA TFT	15"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' x 7.62")	338mm×270mm (13.31"×10.63")		
LCD	Backlight	WLED	WLED	LED	WLED		
LCD	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/m²	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 type		Resistive to	ouch screen			
	Resolution		4096>	×4096			
	Transmittance	> 75%					
	Controller interface	USB					
Touchscreen	Driver Support	Windows 7, Windows 8, Windows 10, Linux					
	Response Time (touch Pen)	<5ms					
	Surface Hardness	Mohs ' Hardness 3H					
	Click Life	250g / 35,000,000 times					
	Draw life		250g / 5,00	0,000 times			
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide temperature SSD) / 0 -	~ 45°C (32~113°F)(General ter	mperature HDD/SSD)		
	Storage Temperature		-30 ~ 80°C	(-22~176°F)			
	Relative Humidity		5~95% RH@40°C (Non-condensation)			
Environmental	Vibration	Operating Rand	dom Vibration Test 5~500Hz	, 1.5Grms@with SSD, follow I	EC 60068-2-64		
	Shock	Operatir	ng 20G peak acceleration (11	Lms duration), follow IEC 600	68-2-27		
	EMC		CE/FCC	Class B			
	Water-proof		Front pa	nel IP65			



Customized YOUR Panel Color Style

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.



Fanless design

Fanless design but working temperature is -20 to $60\,^{\circ}\mathrm{C}$



Neutral front Panel

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



M12 waterproof plug

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



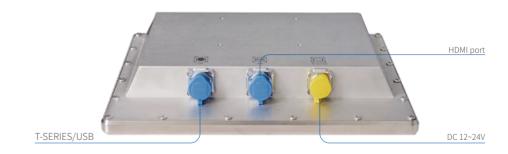
Excellent touch accuracy

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



DC12V/24V Power input

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



WPXXXXP-R SERIES WPXXXXP-C SERIES







М	odel No.	WP1501P-R	WP1901P-R	WP2151P-R			
	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")			
General	Box structure	St	ainless steel machine, drawing proce	SS			
000.	Mounting		Support VESA mountin				
	Power Supply		12~24VDC input				
	Power Dissipation	13.6W	18.4W	21.3W			
	Signal input		HDMI				
	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			
LCD	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 type		Resistive touch screen				
	Resolution		4096×4096				
	Transmittance	> 75%					
	Controller interface	USB					
Touchscreen	Driver Support	Wi	indows 7, Windows8, Windows10, Lin	10, 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				
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide tem	perature SSD) / 0 ~ 45°C (32~113°F)(G	General temperature HDD/SSD)			
	Storage Temperature		-30 ~ 80°C (-22~176°F)				
Environmental	Relative Humidity	5	5 ~ 95% RH@40°C (Non-condensation)			
Environmentat	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	D, follow IEC 60068-2-64			
	Shock	Operating 20G pe	ak acceleration (11ms duration), follo	w IEC 60068-2-27			
	EMC		CE/FCC Class B				
	Water-proof		The whole machine IP69K				







M	odel No.	WP1501P-C	WP1901P-C	WP2151P-C		
	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")		
General	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 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		
LCD	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 type	Multi-point capacitive touch screen				
	Transmittance	> 87%				
	Controller interface		USB			
	Driver Support	V	/indows7, Windws 8, Windows 10, Linux			
Touchscreen	Multi-touch	10 points (windows system)				
	Surface Hardness	Mohs' Hardness 7H				
	Work Temperature	-20 ~ 60°C (-4~140°F)(Wide ten	nperature SSD) / 0 ~ 45°C (32~113°F)(Ge	neral temperature HDD/SSD)		
	Storage Temperature	-30 ~ 80°C (-22~176°F)				
	Relative Humidity	!	5 ~ 95% RH@40°C (Non-condensation)			
	Vibration	Operating Random Vibr	ation Test 5~500Hz, 1.5Grms@with SSD,	, follow IEC 60068-2-64		
Environmental	Shock	Operating 20G pe	eak acceleration (11ms duration), follow	IEC 60068-2-27		
	EMC		CE/FCC Class B			
	Water-proof		The whole machine IP69K			

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 mother-boards. 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.

 ${\sf OS:Windows7,Windows10}\ {\sf and\ Linux.}$



H81 Platform

Adapt to IPC615H/615G2/615G1



H110 Platform

Adapt to IPC615H/615G2/615G1



Q370 Platform

Adapt to IPC615H/615G2/615G1



W580 Platform

Adapt to IPC615H/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



Flexible expansion slots

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



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.



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.



Fastening type DIMM memory slot

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



Software dongle design

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



1 × miniPCle slot, can expand the functions of Wifi,



Serial port expansion

Reserve multiple serial ports for expansion.



Clear indicator light at the front panel

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







IPC615H SERIES Rack-mount IPC





Model No.		IPC615H-H81	IPC615H-H110
	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
Processor	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI UEFI 64Mbit
Memory	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
	Capacity	up to 16GB	up to 32GB
	DIMM	2×DIMM Slot	
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	
	VGA	Supports max resolution up to 1920×1200@60Hz	
Display	HDMI	Supports max resolution up to 4096×2160@30Hz	
	DP×2		
	Display	Yes, VGA + HDMI + DVI	
LAN	LAN1	Intel GbE LA	N controller
LAN	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in, Line-out (Optional)	MIC-In, Speaker-Out, Line-In
	СОМ	$Default(1 \times RS232 / 422 / 485), Select(5 \times RS232)$	Default(1×RS232), Select(3×RS232, 2×RS232 / 485)
I/O	PS2	1×PS2 Port (Key	yboard & Mouse)
	USB	2×USB3.0, 6×USB2.0	4×USB3.0, 4×USB2.0
Other	GPIO	8×Programmable GPIO	
Other	WatchDog	0~255 seconds programmable	
	PCle	1×PCle×16 slot, 1×PCle×4 slot (X1信号)	$1\times$ PCle \times 16 slot, $1\times$ PCle \times 4 slot, $1\times$ PCle \times 1 slot
Expansion slot	PCI	5×32bits PCI slot	4×32bits PCI slot
	miniPCle	1×mini PCIe (expansion WIFI/4G)	
Storage	HDD	1×2.5 " HDD Bay, 1×3.5 " HDD Bay	
Storage Medium	SSD	1×full size mSATA SSD	
	DVD	1×5.25" DVD-RW	
OS	OS	Windows 7, Windows 10, Linux	
	Туре	ATX	
Power	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
	Box structure	Hot dip galvanized sheet steel shel	
Mechanism	Mounting	19-inch standard rack-mounted	
Parameters	Dimensions	481mm×430mm×177mm (18.9"×16.9"×6.9")	
	Net weight	9.62kg (21.21lb)	
	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (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	
	Safety Certification	CC	CC





M	Iodel No.	IPC615H-Q370	IPC615H-W580	
	СРИ	Support 8-9th Generation, LGA1151	Support 10-11th Generation, LGA1200	
Processor	Chipset	Intel® Q370	Intel® W580	
	BIOS	AMI UEFI 128Mbit	AMI UEFI 256Mbit	
	Architecture	Support DDR4-2400/2666MHz	Support DDR4-2133/2400/2666/2933/3200MHz	
Memory	Capacity	up to 64GB	up to 128GB	
	DIMM	4×U-DIMM Slot	4×288PIN DDR4 UDIMM	
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	-	
	VGA	Supports max resolution up to 1920×1200@60Hz	-	
Display	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	Yes, DP + DP + HDMI	
LAN	LAN1	Intel GbE LAN controller		
LAN	LAN2	Intel GbE LA	Intel GbE LAN controller	
Audio	Port	MIC-In, Speake	er-Out, Line-In	
	СОМ	1×RS232, Select(3×RS232, 1×RS232/422/485, 1×RS232/485)	1×RS232/422/485, Select(1×RS232/422/485, 4×RS232)	
I/O	PS2	1×PS2 Port (Keyboard & Mouse)		
	USB	4×USB3.0, 4×USB2.0	10×USB3.0, 2×USB2.0	
Other	GPIO		-	
other	WatchDog	0~255 seconds	programmable	
	PCle	1*PCIe x16 slot, 4*PCIe x4 slot	4*PCIe x4 slot, 1*PCIe x16 slot, 1*PCIe x16 slot(X8信号)	
Expansion slot	PCI	2×32bits PCI slot	1×32bits PCI slot	
	miniPCle	1×mini PCIe (可扩展WIFI/4G)	-	
Storage	HDD	1×2.5" HDD Bay,	1×3.5" HDD Bay	
Storage Medium	SSD	1×full size mSATA SSD	$1\times$ M.2 Key-M support for SATA bus (only for 11th Gen Processor)	
	DVD	1×5.25" DVD-RW		
os	OS	Windows	10, Linux	
	Туре	A	ΓX	
Power	Power Adapter	AC 180~264V		
	Power Dissipation	Depending on the CPU (Default built-in 400W power)		
	Box structure	Hot dip galvanized sheet steel shel		
Mechanism	Mounting	19-inch standard rack-mounted		
Parameters	Dimensions	481mm×430mm×177mm (18.9"×16.9"×6.9")		
	Net weight	9.62kg (21.21lb)		
	Work Temperature	0 ~ 50°C (32~122°F)		
	Storage Temperature	-20 ~ 70°C (-4~158°F)		
Environmental	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 (11	ms duration), follow IEC 60068-2-27	
	EMC	CE/FCC Class B		
	Safety Certification	CC	CC CC	

IPC615G2 SERIES Wall-mount IPC

Desktop & Wall-mount high-performance IPC



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.















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.



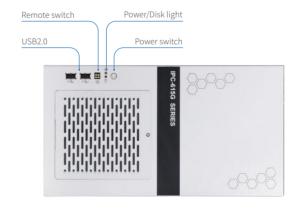
Remote power ON/OFF

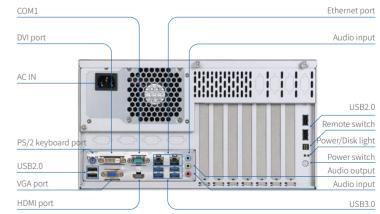
Reseved PS-ON terminal on the front/real panel (only one available).



Reserved series port space

Reserve multiple serial ports for expansion.





IPC615G2 SERIES Wall-mount IPC





Model No.		IPC615G2-H81	IPC615G2-H110
Processor	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI UEFI 64Mbit
	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
Memory	Capacity	up to 16GB	up to 32GB
	DIMM	2×DIMM Slot	
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	
	VGA	Supports max resolution up to 1920×1200@60Hz	
Display	HDMI	Supports max resolution up to 4096×2160@30Hz	
	DP×2	-	
	Display	Yes, VGA+	HDMI + DVI
LAN	LAN1	Intel GbE LA	N controller
LAN	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-in,Line-out (Optional)	MIC-In, Speaker-Out, Line-In
	СОМ	Default (1×RS232 / 422 / 485), Select (5×RS232)	Default (1×RS232), Select (3×RS232, 2×RS232 / 485)
I/O	PS2	1×PS2 Port (Ke	yboard & Mouse)
	USB	2×USB3.0, 6×USB2.0	4×USB3.0, 4×USB2.0
Other	GPIO	8×Programmable GPIO	
Other	WatchDog	0~255 seconds	programmable
	PCle	$1 \times PCle \times 16$ slot, $1 \times PCle \times 4$ slot	$1 \times PCle \times 16 \text{ slot}, 1 \times PCle \times 4 \text{ slot}, 1 \times PCle \times 1 \text{ slot}$
Expansion slot	PCI	5×32bits PCI slot	4×32bits PCI slot
	miniPCle	1×mini PCIe (expansion WIFI/4G)	
Storage	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
Storage Medium	SSD	1×full size mSATA SSD	
	DVD	-	
os	OS	Windows 7, Windows 10, Linux	
	Туре	ATX	
Power	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
	Box structure	Hot dip galvanized sheet steel shel	
Mechanism	Mounting	19" s tandard rack-mount IPC	
Parameters	Dimensions	370mm×326mm×180mm (14.6"×12.8"×7.1")Without stand	
	Net weight	-	
	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (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	
	Safety Certification	CC	CC





М	lodel No.	IPC615G2-Q370	IPC615G2-W580
	CPU	Support 8-9th Generation, LGA1151	Support 10-11th Generation, LGA1200
Processor	Chipset	Intel® Q370	Intel® W580
	BIOS	AMI UEFI 128Mbit	AMI UEFI 256Mbit
	Architecture	Support DDR4-2400/2666MHz	Support DDR4-2133/2400/2666/2933/3200MHz
Memory	Capacity	up to 64GB	up to 128GB
	DIMM	4×U-DIMM Slot	4×288PIN DDR4 UDIMM
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	-
	VGA	Supports max resolution up to 1920 × 1200@60Hz	-
Display	НДМІ	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(支持异步三显)	Yes, DP + DP + HDMI(支持异步三显)
1.001	LAN1	Intel GbE LA	N controller
LAN	LAN2	Intel GbE LAN controller	
Audio	Port	MIC-In, Speaker-Out, Line-In	
	COM	1×RS232, Select(3×RS232, 1×RS232/422/485, 1×RS232/485)	1×RS232/422/485, Select(1×RS232/422/485, 4×RS232)
I/O	PS2	1×PS2 Port (Keyboard & Mouse)	
	USB	4×USB3.0, 4×USB2.0	10×USB3.0, 2×USB2.0
Other	GPIO	-	
Other	WatchDog	0~255 seconds programmable	
	PCle	1*PCIe x16 slot, 4*PCIe x4 slot	4*PCIe x4 slot, 1*PCIe x16 slot, 1*PCIe x16 slot
Expansion slot	PCI	2×32bits PCI slot	1×32bits PCI slot
	miniPCle	1×mini PCIe (可扩展WIFI/4G)	-
Storage	HDD	1×2.5" HDD Bay,	1×3.5" HDD Bay
Storage Medium	SSD	1×full size mSATA SSD	$1\times$ M.2 Key-M support for SATA bus (only for 11th Gen Processor)
	DVD		
os	OS	Windows 10, Linux	
	Туре	ATX	
Power	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 400W power)	
	Box structure	Hot dip galvanized sheet steel shel	
Mechanism	Mounting	19" s tandard rack-mount IPC	
Parameters	Dimensions	370mm×326mm×180mm (14.6"×12.8"×7.1")Without stand	
	Net weight	-	
	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
	Relative humidity	5 ~ 95% (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	
	Safety Certification	CC	CC C

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 miniPCle, 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.



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.



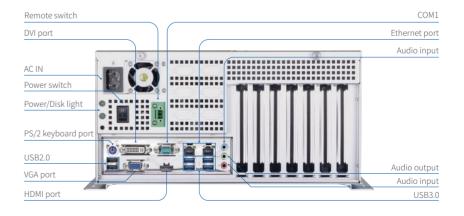
Remote power ON/OFF

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



Reserved series port space

Reserve multiple serial ports for expansion.



IPC615G1 SERIES Wall-mount IPC





Model No.		IPC615G1-H81	IPC615G1-H110
Processor	CPU	Support 4th Generation, LGA1150	Support 6-9th Generation, LGA1151
	Chipset	Intel® H81	Intel® H110
	BIOS	AMI UEFI 64Mbit	AMI UEFI 64Mbit
Memory	Architecture	Support DDR3-1333/1600MHz	Support DDR4-2133/2400MHz
	Capacity	up to 16GB	up to 32GB
	DIMM	2×DIN	IM Slot
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	
	VGA	Supports max resolution up to 1920×1200@60Hz	
Display	HDMI	Supports max resolution up to 4096×2160@30Hz	
	Display	Yes, VGA + HDMI + DVI	
	LAN1	Intel GbE LAN controller	
LAN	LAN2	Intel GbE LA	N controller
Audio	Port	Optional	
	COM	Default(1×RS232 / 422 / 485), Select(5×RS232)	Default(1×RS232), Select(3×RS232, 2×RS232 / 485)
I/O	PS2	1×PS2 Port (Keyboard & Mouse)	
	USB	2×USB3.0, 6×USB2.0	4×USB3.0, 4×USB2.0
Oth	GPIO	8×Programmable GPIO	
Other	WatchDog	0~255 seconds	programmable
	PCIe	1×PCle×16 slot, 1×PCle×4 slot	$1 \times PCle \times 16$ slot, $1 \times PCle \times 4$ slot, $1 \times PCle \times 1$ slot
Expansion slot	PCI	5×32bits PCI slot	4×32bits PCI slot
	miniPCle	1×mini PCIe (expansion WIFI/4G)	
Storogo	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
Storage Medium	SSD	1×full size mSATA SSD	
	DVD	-	
os	OS	Windows 7, Windows 10, Linux	
	Туре	1U FLEX	
Power	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 250W power)	
	Box structure	Hot dip galvanized sheet steel shel	
Mechanism	Mounting	Mounting 19" s tandard rack-mount IPC	
Parameters	Dimensions	350mm×317mm×160mm (13.8"×12.5"×6.3")Without stand	
	Net weight	-	
	Work Temperature	0 ~ 50°C (32~122°F)	
Environmental	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	CC	CC



Model No.		IPC615G1-Q370	
CPU		Support 8-9th Generation, LGA1151	
Processor	Chipset	Intel® Q370	
	BIOS	AMI UEFI 128Mbit	
Memory	Architecture	Support DDR4-2400/2666MHz	
	Capacity	up to 64GB	
	DIMM	4×U-DIMM Slot	
	DVI	Supports DVI-D with max resolution up to 1920×1200@60Hz	
Diamlass	VGA	Supports max resolution up to 1920×1200@60Hz	
Display	HDMI	Supports max resolution up to 4096×2160@30Hz	
	Display	Yes, VGA + HDMI + DVI	
LAN	LAN1	Intel GbE LAN controller	
LAN	LAN2	Intel GbE LAN controller	
Audio	Port	Optional	
	СОМ	Default(1×RS232), Select(3×RS232, 1×RS232 / 422 / 485, 1×RS232 / 485)	
I/O	PS2	1×PS2 Port (Keyboard & Mouse)	
	USB	4×USB3.0, 6×USB2.0	
Other	GPIO	8×Programmable GPIO	
Other	WatchDog	0~255 seconds programmable	
	PCle	1*PCle x16 slot, 4*PCle x4 slot	
Expansion slot	PCI	2×32bits PCI slot	
	miniPCle	1×mini PCIe (expansion WIFI/4G)	
Storage	HDD	1×2.5" HDD Bay, 1×3.5" HDD Bay	
Medium	SSD	1×full size mSATA SSD	
	DVD	-	
OS	OS	Windows 7, Windows 10, Linux	
	Туре	1U FLEX	
Power	Power Adapter	AC 180~264V	
	Power Dissipation	Depending on the CPU (Default built-in 250W power)	
	Box structure	Hot dip galvanized sheet steel shel	
Mechanism	Mounting	Mounting 19" s tandard rack-mount IPC	
Parameters	Dimensions	350mm×317mm×160mm (13.8"×12.5"×6.3")	
	Net weight	-	
	Work Temperature	0 ~ 50°C (32~122°F)	
	Storage Temperature	-20 ~ 70°C (-4~158°F)	
Environmental	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	

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×RS232,2×RS232/485

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



IPC615G Wall-mount IPC



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



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 (TDP 35W) 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



2 Mini PCIe expansion slots

Rapid expansion CAN, ProfiBUS, FieldBus and other field bus, or 3G / 4G, WIFI, GPS communication



Multi-network ports and serial port expansion

Up to 6 Gigabit Ethernet ports and 12 RS232 / 485 serial ports.



Remote power ON/OFF

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



SIM+

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



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.





















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.



Dual Ethernet port standard configuration

2 built-in Realtek Gigabit Ethernet ports.



Fastened power connector

DC12V power input, with over-current, overvoltage and reverse protection measures, the interface



Optional multi-serial configuration

Standard configuration of 6 serial ports, up to 11.



Support synchronous or asynchronous Display

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



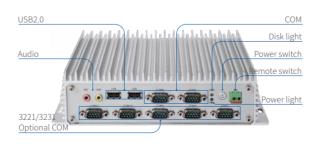
Remote power ON/OFF

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





eBOX-3230





eBOX-3231

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 includs 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 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.



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.



Dual Ethernet port standard configuration

2 built-in Realtek Gigabit Ethernet ports.



Fastened power connector

DC12V power input, with over-current, overvoltage and reverse protection measures, the interface



4×RS232/RS48, 2×RS232

8KV elec trostatic pr otection, 600W TV S sur ge protection, RS485 support aut omatic data flow



Support synchronous or asynchronous Display

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



Remote power ON/OFF

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



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.





eBOX-3240



eBOX-3240-L2



eBOX-3240-C2

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 CoreTM / 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

Reseved 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

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



eBOX-3250

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 maintance. 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



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/CeleronCeleron 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

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



eBOX-3310

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 momory, 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 ~ 24 V 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

81 8.

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

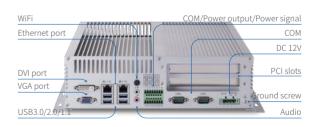
There are 2 intel Ethernet ports with high speed Ether-CAT and jumbo frames support.



Remote power ON/OFF

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





eBOX-3622-H

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.



2×RS232/485

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



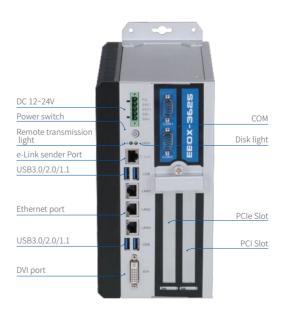
DC12V~24V Power input

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.



eBOX-3625

eBOX-3000 SERIES eBOX-32XX SERIES





Me	odel No.	eBOX-3000	eBOX-3000H
	CPU	Intel® Core™ 6/7/8/9th generation i7 /	i5 / i3 / Pentium® / Celeron® , LGA1151
Processor	Chipset	Intel H110 Ex	press Chipset
	BIOS	AMI UEF	I 64M bit
	Architecture	DDR4-24	400MHz
Memory	Capacity	Up to	32GB
	DIMM	2×260-pi	n SODIMM
	VGA	Up to 193	20×1200
Display	DVI	Support 1	920×1200
Display	HDMI	1920>	<1200
	Display	Yes, VGA+	DVI + HDMI
LAN	LAN1	Intel GbE LA	N controller
LAN	LAN2	Intel GbE LA	N controller
Audio	Port	Opti	onal
Audio	Amplifier	N	/A
	COM	6×RS232(COM5~CO	M6 Optional RS-485)
I/O	LPT	N	/A
	USB	4×USB3.0/2.0/1	1,4×USB2.0/1.1
Other	Digital IO	N	/A
Other	WatchDog	255 seconds p	programmable
Expansion slot	MiniPCle	2×full size PCIe	with SIM holder
Expansion stot	PCIe & PCI	1×PCle x16 slot	or 1×32bits PCI
Storago Modium	HDD	1×2.5" HDD Bay (Max	rate SATA III 6.0 Gb/s)
Storage Medium	SSD	1×M	SATA
OS	OS	Windows 7, Win	dows 10, Linux
	Туре	A	Т
Power	Input voltage	DC 12~24	¥V ±10%
rower	Minimum Input	12V/10	A, 120W
	Power Adapter	Opti	onal
Power	No-load	27V	Vatt
Dissipation	Full-load	55Watt (According to the CPU set	, total power not exceeding 100W
	Box structure	Aluminum	alloy BOX
Mechanism	Mounting	Support Desktop and W	/all-mounted mounting
Parameters	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)
	Work Temperature	-20 \sim 60°C (-4°F \sim 140°F) (Wide temperature SSD), 0 \sim	45°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C	(-40~176°F)
	Relative humidity	5 ~ 95% (Non-	condensation)
Environmental	Vibration	Operating Random Vibration Test 5~500Hz	, 1.5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (13	Lms duration), follow IEC 60068-2-27
	EMC	CE/FCC	Class B
	Safety Certification	CC	CC





М	odel No.	eBOX-3230	eBOX-3231
	CPU	Intel® Celeror	n® J1900
	Frequency	Quad core 2	2.0GHz
Processor	L2 Cache	2MB	
	Chipset	Intel Bay tra	ail SOC
E	BIOS	AMI UEFI 6	4Mbit
	Architecture	DDR3L-133	ЗМН
Memory	Capacity	Up to 8	GB
	DIMM	1×SODI	MM
	Graphics controller	Intel® HD Grap	phic Core
	Graphics engine	DirectX 9 and OpenGL3.0 support; Hardware Encode/Decod	le: MPEG2; Hardware Encode/Decode: H.264/VC1/MVC
Diamlass	VGA	Up to 1920:	×1200
Display	DVI	N/A	
	HDMI	Supports HDMI v1.3 up to 1080	P, Max. data rate 1.65 Gb/s
	Display	Yes, VGA +	HDMI
LAN	LAN1	Realtek GbE LAN	l controller
LAN	LAN2	Realtek GbE LAN	l controller
Audio	Port	Option	al
Audio	Amplifier	N/A	
	COM	COM1 (RS232/485 optional), COM2~6 (RS232)	COM1、COM7~COM10 (RS232/485 optional) COM2~COM6、COM11、COM12 (RS232, COM12 built-in)
I/O	LPT	N/A	
	USB	1×USB3.0/2.0/1.1,	5×USB2.0/1.1
Other	Digital IO	8×GPI	0
Other	WatchDog	0~255 seconds pr	ogrammable
Expansion slot	MiniPCle	1×full size PCIe wi	th SIM holder
Expansion stot	PCIe & PCI	N/A	
Storage Medium	HDD	1 ×2.5" HDD Bay (Ma	ax rate 300MB/s)
Storage medium	SSD	1×full size mS	SATA SSD
OS	OS	Windows 7, Windo	ows 10, Linux
	Туре	AT	
Power	Input voltage	DC 12V ±	10%
rowei	Minimum Input	12V, 3	A
	Power Adapter	AC to DC, DC 12V/5A,	60W (Optional)
Power	No-load	15 Wai	tt
Dissipation	Full-load	31 Wai	tt
	Box structure	Hydronalium o	outer skin
Mechanism	Mounting	D esktop m oun ting,	W all m oun ting
Parameters	Dimensions (L×W×H)	234mm×150mm×60mm	(9.21"×5.91"×2.36")
	Net weight	1.42kg (3.13lb)	1.50kg (3.31lb)
	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide temperature SSD), 0 ~ 45	5°C (32°F~113°F) (General temperature HDD/SSD)
	Storage Temperature	-40 ~ 80°C (-4	0~176°F)
	Relative humidity	5 ~ 95% (Non-coi	ndensation)
Environmental	Vibration	Operating Random Vibration Test 5~500Hz, 1.	5Grms@with SSD, follow IEC 60068-2-64
	Shock	Operating 20G peak acceleration (11m	s duration), follow IEC 60068-2-27
	EMC	CE/FCC CI	ass B
	Safety Certification	CCC	

eBOX-3240 SERIES eBOX-3250







M	1odel No.	eBOX-3240	eBOX-3240-L2	eBOX-3240-C2
	CPU		Intel® Celeron® J6412	
Processor	Frequency		2.0GHz	
	L2 Cache		1.5MB	
	Architecture		DDR4L-2666/2933/3200MHz	
Memory	Capacity		Up to 32GB	
	DIMM		2×SODIMM	
	DP		Up to 4096×2160@30Hz	
Dicplay	HDMI		Up to 4096×2160@30Hz	
Display	VGA		Up to 1920×1200@60Hz	
	Display	suppo	rt dual screen synchronous or asynch	ironous
	LAN1-2		2×Realtek GbE LAN controller	
LAN	LAN3-4	N/A	2×Intel GbE LAN controller	N/A
011 -	Port		MIC-in, Line-out	
Audio	Amplifier		N/A	
	СОМ	4×	RS232/485 (COM1-4), 2×RS232 (COM	5-6)
	LPT	N/A	N/A	2×CAN or 2×COM(RS232/485)
I/O	USB		4×USB3.0, 2×USB2.0	
	Digital IO		N/A	
Other	WatchDog		255 seconds programmable	
Other	MiniPCle		$2\times$ full size MiniPCIe with SIM holde	r
Expansion slot	PCIe & PCI		N/A	
Expansion stot	M.2	1 x M.2 s	lot for 5G module with extensible USE	3 protocol
Storage Medium	HDD		1×SATA	
Medium	SSD		1×M.2 Key-M Slot (SATA SSD, 2280)	
OS	OS		Windows 10 IoT, Linux	
	Туре		AT	
Power	Input voltage		DC 12V \pm 10%	
Tower	Minimum Input		12V, 3A	
	Power Adapter		AC to DC, DC 12V/5A, 60W (Optional)	
Power	No-load		10W	
Dissipation	Full-load		31W	
	Box structure		Hydronalium outer skin	
Mechanism	Mounting		Desktop mounting, Wall mounting	
Parameters	Dimensions (L×W×H)	234n	nm×150mm×60mm (9.21"×5.91"×	2.36")
	Net weight		1.8Kg	
	Work Temperature	-20 ~ 60°C (-4°F~140°F) (Wide ter	mperature 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)	
Environmental	Vibration	Operating Random Vibr	ation Test 5~500Hz, 1.5Grms@with S	SD, follow IEC 60068-2-64
	Shock	Operating 20G pe	eak acceleration (11ms duration), follo	ow IEC 60068-2-27
	EMC		CE/FCC Class B	
	Safety Certification		CCC	



Мо	del No.	eBOX-3250
	CPU	Intel® Core™ / Pentium® / Celeron® LAG1151 (MAX CPU TDP 35W)
Processor	Frequency	AMI UEFI 64Mbit
110003301	L2 Cache	H110
	Architecture	DDR4-2400MHz
Memory	Capacity	Up to 32GB
	DIMM	2 ×SO-DIMM Slot
	DP	N/A
	HDMI	Up to 4096×2160@30Hz
Display	VGA	N/A
	Display	N/A
	LAN1	Intel GbE LAN controller
LAN	LAN2	Intel GbE LAN controller
	LAN3	Intel GbE LAN controller
	Port	N/A
Audio	Amplifier	N/A
	COM	4×RS232/485(COM1-4),up to 6×COM(RS232/485)
I/O	CAN	2 CAN bus (optional)
	USB	4×USB3.0, 2×USB2.0
	Digital IO	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)
Other	WatchDog	255 level programmable
Expansion slot	MiniPCle	1×Full-size PCIe Mini slot with SIM holde
	PCIe & PCI	N/A
Storage	M.2	1×M.2 Key-M Slot (NVME SSD, 2280)
Medium	SSD	1×mSATA
os	OS	Windows 7, Windows 10, Linux
	Туре	AT
B	Input voltage	DC12-24V \pm 10%, overcurrent, overvoltage and polarity inverse protection
Power	Minimum Input	12V, 5A
	Power Adapter	Optional 60W/120W
Power	No-load	15 Watt
Dissipation	Full-load	35 Watt
	Box structure	Aluminum-magnesium alloy box
Mechanism	Mounting	Desktop mounting, Wall mounting
Parameters	Dimensions (L×W×H)	256mm×173mm×55.3mm (10.08"×6.81"×2.18")
	Net weight	2Kg
	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)
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
	Safety Certification	CCC



Model No.		eBOX-3310
	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
Processor	L2 Cache	1.5MB/2MB/2MB/3MB
	Chipset	Integrated PCH-LP
	BIOS	-
	Architecture	DDR4-2400MHz / DDR4-2400MHz / DDR3L-1333MHz / DDR3L-1600MHz
Memory	Capacity	Up to 16GB / Up to 16GB / Up to 8GB / Up to 8GB
	DIMM	1×SODIMM
	Graphics controller	-
	Graphics engine	
p: 1	VGA	1920×1200 @ 60Hz or 2048×1152 @ 60Hz with reduced blanking
Display	DVI	1920×1200 @ 60Hz or 2048×1152 @ 60Hz with reduced blanking
	HDMI	N/A
	Display	Yes, VGA + DVI/Yes, VGA + HDMI
1.441	LAN1	Intel GbE LAN controller
LAN	LAN2	Intel GbE LAN controller
Audio	Port	Optional
I/O	LPT	2×RS232/485 (Max to 6 from EasyBUS)
1/0	USB	4×USB3.0/2.0/1.1
Other	Digital IO	16×GPIO(Optional)
Other	WatchDog	255 seconds programmable
Expansion slot	MiniPCle	1×full size PCIe with SIM holder
Expansion stot	PCIe & PCI	N/A
Storage Medium	HDD	1 ×2.5" HDD Bay (Max. rate 300MB/s)
Storage Medium	SSD	1×full size mSATA SSD
OS	OS	Windows 7, Windows 10, Linux
	Туре	AT
	Input voltage	DC 12-24V ±10%
Power	Minimum Input	12V, 3A
	Power Adapter	AC to DC, DC 12V/5A, 60W (Optional)
	Power consumption	5-30W
	Box structure	Aluminum-magnesium alloy BOX
Mechanism Parameters	Mounting	Support Desktop,Wall-mounted and VESA mounting
rarameters	Dimensions (L×W×H)	297mm×184mm×50mm (11.69"×7.24"×1.97")
	Net weight	2.56KG
	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)
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 A
	Safety Certification	CCC



Mo	odel No.	eBOX-3560
	CPU	Intel® Celeron® J3355
	Frequency	Dual core 2.0GHz
Processor	L2 Cache	2MB
	Chipset	·
	BIOS	AMI UEFI 128Mbit
	Architecture	DDR3L-1666MHz
Memory	Capacity	Up to 8GB
	DIMM	1×SODIMM
Disuls	Display controller	Integrated graphics media accelerator
Display	HDMI	4096×2160@30Hz
	LAN1	Intel GbE LAN controller
LAN	LAN2	Intel GbE LAN controller
	Port	2×RS232(RS232/485 Optional)
I/O	LPT	N/A
	USB	4×USB3.0/2.0/1.1
	Digital IO	N/A
Other	WatchDog	255 seconds programmable
	MiniPCle	2× full size MiniPCIe with SIM holder
Expansion slot	PCIe & PCI	N/A
Storage Medium	SSD	1×full size mSATA SSD
OS	OS	Windows 10 64bit, Linux
	Туре	AT
Power	Input voltage	DC 9~24V
Power	Minimum Input	12V, 3A
	Power Adapter	Optional
Power	No-load	15 Watt
Consumption	Full-load	31 Watt
	Box structure	Aluminum alloy BOX
Mechanism Parameters	Mounting	Din-rail
	Dimensions (L×W×H)	145mm x 145mm x 75mm (5.71" x 5.71" x 2.95")
	Net weight	1.6KG
	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)
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 A
	Safety Certification	CCC

eBOX-3622-H



M	odel No.	eBOX-3622-H
	CPU	Intel® Core™ 4th i7/i5/i3/Pentium®/Celeron®, LGA1150
	Frequency	1.4GHz~3.3GHz
Processor	L2 Cache	Up to 8MB
	Chipset	Intel H81
	BIOS	AMI UEFI 64Mbit
	Architecture	DDR3-1066 / 1333 / 1600MHz (Only Ivy bridge can fit for 1600MHz)
Memory	Capacity	Up to 16GB
	DIMM	2×SODIMM
	Graphics controller	
	Graphics engine	-
Diamlass	VGA	Up to 1920×1200
Display	DVI	Support 1920×1200
	HDMI	N/A
	Display	Yes, VGA + DVI
LAN	LAN1	Intel GbE LAN controller
LAN	LAN2	Intel GbE LAN controller
Adi.a	Port	Optional
Audio	Amplifier	N/A
	СОМ	6×RS232 COM (COM3~COM4 optional RS485, PIN9 optional +5V/+12V/RI)
I/O	LPT	N/A
	USB	4×USB3.0/2.0/1.1, 2×USB2.0/1.1
Other	Digital IO	16×GPIO
Other	WatchDog	Level 0~255 is programmable
Expansion slot	MiniPCle	1×full size PCIe with SIM holder
Expansion stot	PCIe & PCI	$1 \times 32 \text{bits PCI slot} + 1 \times \text{PCIe} \times 4 \text{ slot(option} \times 16) / 2 \times 32 \text{bits PCI slot} / 1 \times \text{PCIe} \times 1 \text{ slot} + 1 \times \text{PCIe} \times 16 \text{ slot}$
Storage Medium	HDD	1×2.5" HDD Bay (Max. rate 3Gb/s)
Storage meanann	SSD	1×mSATA
os	OS	Windows 7, Windows 10, Linux
	Туре	AT
Power	Input voltage	DC 12V ±10%
1 01101	Minimum Input	12V, 6A
	Power Adapter	AC to DC, DC12V/10A, 120W
Power Consumption	No-load	27Watt
Consumption	Full-load	55Watt (depending on the CPU)
	Box structure	Hot dip galvanized sheet steel shel
Mechanism Parameters	Mounting	Desktop mounting, Wall mounting
raidilleteis	Dimensions (L×W×H)	285mm×240mm×82mm (11.22"×9.45"×3.23")
	Net weight	4.7kg (10.36lb)
	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)
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
	Safety Certification	CCC



M	odel No.	eBOX-3625
	CPU	Intel® Core™ 6/7/8/9th generation i7 / i5 / i3 / Pentium®/ Celeron® , LGA1151, MAX TDP 65W
Processor	Frequency	Intel H110 Express Chipset
	BIOS	AMI UEFI 64Mbit
	Architecture	DDR4-2400MHz
Memory	Capacity	Up to 32GB
	DIMM	2×260-pin SODIMM
eLINK port	e-LINK sender Port	Integrated display signal, USB signal, touch screen signal
	Graphics controller	-
	Graphics engine	•
	VGA	N/A
Display	DVI	Support 1920×1080
	HDMI	N/A
	Display	N/A
	LAN1	Intel GbE LAN controller
LAN	LAN2	Intel GbE LAN controller
	LAN3	Intel GbE LAN controller
	Port	N/A
Audio	Amplifier	N/A
	COM	2×RS232/485 selectable
I/O	LPT	N/A
	USB	4×USB3.0/2.0
0.1	Digital IO	N/A
Other	WatchDog	255 seconds programmable
	MiniPCle	1×full size PCIe with SIM holder
Expansion slot	PCIe & PCI	1×PCle×16 slot + 1×PCl
Chamana Madiana	HDD	N/A
Storage Medium	SSD	1×mSATA
os	OS	Windows 10, Linux
	Туре	AT
D	Input voltage	DC 12~24V ±10%
Power	Minimum Input	12V/10A, 120W
	Power Adapter	Optional
Power	No-load	27Watt
Consumption	Full-load	55Watt (depending on the CPU)
	Box structure	Aluminum alloy BOX
Mechanism	Mounting	Support Desktop and Wall-mounted mounting
Parameters	Dimensions (L×W×H)	238mm×191.5mm×120mm
	Net weight	3.5KG
	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)
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
	Safety Certification	CCC

NP Series Control Cabinet Industrial PC

High performance, Extremely space-saving and Flexible

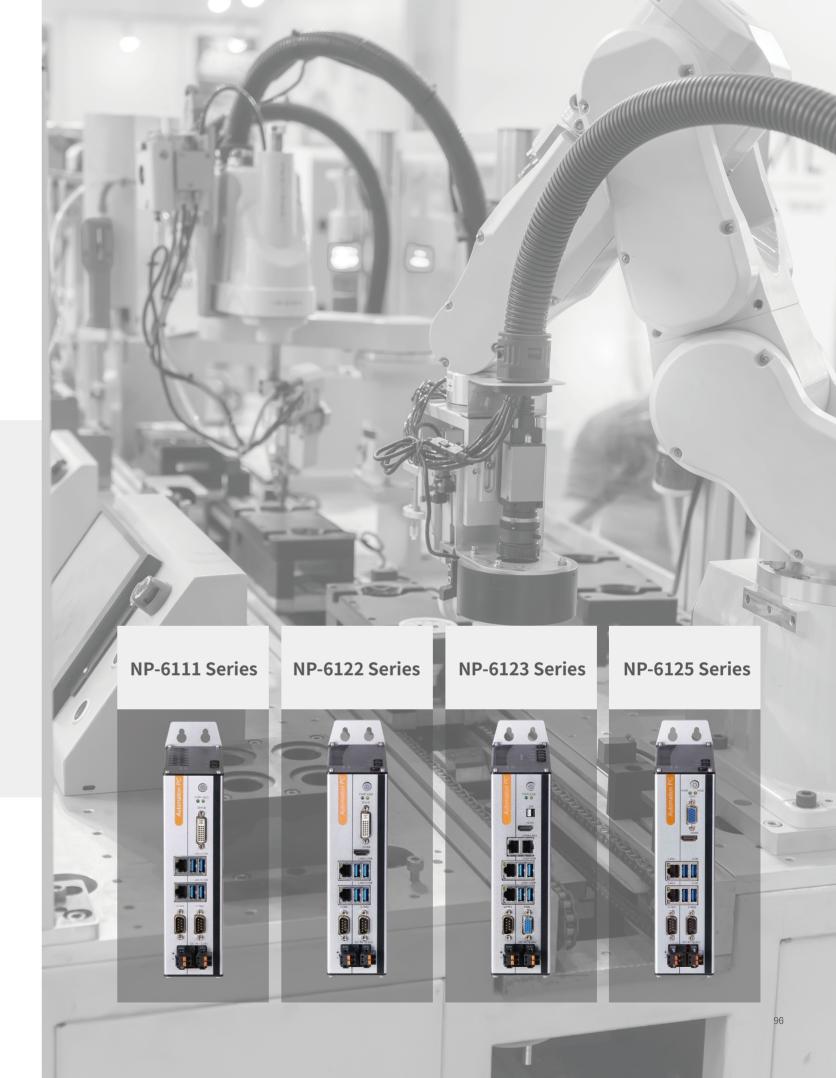




The NP series of ultra-compact scalable Industrial PC combines maximum computing power in which is the most compact format with a wide range of options for installation in the control cabinet. It is ideally suited for Machine Vision, Motion Control, Robots and Smart Gateway application, some scalable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

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.



Fanless Design

Fanless design but working temperature is



CPU and memory modular design

Celeron core module configuration for product



2×RS232/485

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



No cable design

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



Extremely space-saving and Flexible

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



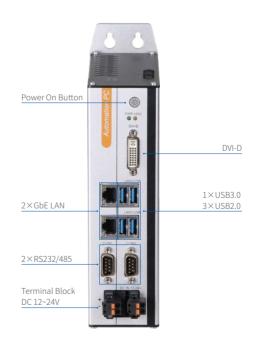
Wide voltage power supply: DC12V~24V

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



Flexible mounting

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







miniPCle Expansion Slot









NP-6111 SERIES





M	Iodel No.	NP-6111	NP-6111-JH2
	СРИ	Intel® Celeron® J19	900 / J3455 / J6412
	CPU specification	2.0GHz, 4 cores, 4threads, 2MB L2 cache / 1.5~2.3GHz, 4 cores, 4thre	eads, 2MB L2 cache / 2.0~2.6GHz, 4 cores, 4 threads, 1.5MB L2 cache
System	TDP	10	W
System	BIOS	AMI UEF	I 64Mbit
	Memory	J1900/J3455:1×SO-DIMM DDR3L-1333MHz, (Max. 80	GB) / J6412:1×SO-DIMM DDR4-2400MHz(Max. 16GB)
	Storage	1× mS _i	ATA bay
	USB	4×USB, 1×USB2.0 Type A c	on the board for USB dongle
	СОМ	2×RS232/RS485, RS485 support auto	flow control, ESD protection for RS232
	Ethernet	2×Intel GbE L	AN controller
I/O	PoE	-	2×Intel GbE PoE LAN controller, max. 15W per channel
	DI	-	8×DI NPN/PNP, isolated 2500 Vrms
	DO	-	8×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms
	CAN	-	-
	Light Control	-	4×PWM Light power control with external trigger input, Imax: 1A per channel
Display	DVI-D	Support up to	o 1920×1080
Audio	Line-out	-	-
Expansions	Expansions	1×Full-size PCIe Mini slot with S	SIM card holder(with USB signal)
Other	Watch Dog	1~255 levels p	orogrammable
OS	Windows	Windows 7, Windows 7 En	nbedded, Windows 10 IoT
03	Linux	Ubuntu, Cen	tOS, Debian
Power	Voltage Input	DC12~24V $\pm 10\%$, overcurrent, overvoltage and polarity in	verse protection, (Must be DC24V when using Light Control)
rowei	Power Consumption	Max. 45W	Max. 120W
	Structure	Aluminum-magnesium alloy box,	Fanless, Wall-mounted or DIN-Rail
Chassis	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm
	Net Weight	1.6Kg	2.1Kg
	Work Temperature	-20°C ~ 60°C (-4°F~140	0°F) with air flow (SSD)
	Storage Temperature	-20°C ~ 60°C (-4°F~140	0°F) with air flow (SSD)
Reliability	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 (11	lms duration), follow IEC 60068-2-27
	EMC	CE/FCC	Class A







NP-6111-JH2B	NP-6111-JH3	NP-6111-JH4
Intel® Celeron® J19	000 / 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	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 x Intel GbE PoE LAN controller, max. 15W per channel	-	-
16×DI NPN/PNP, isolated 2500 Vrms	8×DI NPN/PNP, isolated 2500 Vrms	8×DI NPN/PNP, isolated 2500 Vrms
16×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms	8×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms	4 x Relay DO, Normally Open, 30VDC(Imax: 1.0A)/ 60VDC(Imax: 0.3A)/125VAC(Imax: 0.5A)
-	2 x isolated CAN Bus 2.0 A/B	-
	-	
	Support up to 1920×1080	
	-	
1×Fu	ll-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 $\pm 10\%$, overcurrent, ov	vervoltage and polarity inverse protection, (Must be	DC24V when using Light Control)
Max. 80W	Max. 60W	Max. 45W
Aluminu	m-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 Rando	m Vibration Test 5~500Hz, 1.5Grms@with SSD, follo	w IEC 60068-2-64
Operating	20G peak acceleration (11ms duration), follow IEC 6	50068-2-27

CE/FCC Class A

NP-6122 SERIES

Ultra-compact Control Cabinet Industrial PC with High performance processor



NP-6122 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 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

CPU modular design

maintenance and upgrade.

No cable design

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

Latest processor with modular design, very easy for

Using high quality connector between the boards,

reliability and stability for no cable connection



2×RS232/485

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



Extremely space-saving and Flexible

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



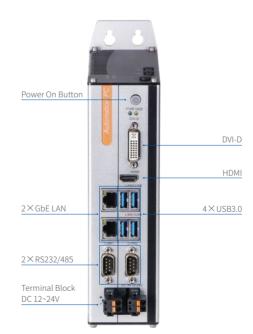
Flexible mounting

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



Wide voltage power supply: DC12V~24V

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

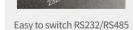


NP-6122



miniPCle Expansion Slot







NP-6122 SERIES







M	1odel No.	NP-6122	NP-6122-H1	NP-6122-H1B
	СРИ	Intel® Core™ 6th/7	th/8th gen i7/i5/i3/Pentium/Celeron	LGA1151 type CPU
	TDP		Max. 65W	
System	BIOS		AMI UEFI 64Mbit	
	Memory	2×S	SO-DIMM DDR4-2400MHz, max up to 3	32GB
	Storage	1×mSATA	bay, 1×M.2(B Key, Type 2280) bay su	pport SATA
	USB	4×USB3.0	, 1×USB2.0 Type A on the board for U	JSB dongle
	СОМ	2×RS232/RS485, R:	S485 support auto flow control, ESD	protection for RS232
	Ethernet		2×Intel GbE LAN controller	
I/O	РоЕ	-	4×Intel GbE PoE LAN contr	roller, max. 15W per channel
	DI	-	8×DI NPN/PNP, isolated 2500 Vrms	16×DI NPN/PNP, isolated 2500 Vrms
	DO	-	8×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms	16×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms
	CAN		-	
	Light Control	-	4×PWM Light power control with external trigger input, Imax: 1A per channel	-
Display	DVI-D		Support up to 1920×1080	
Display	HDMI		Support up to 3840×2160	
Audio	Line-out		-	
Expansions	Expansions	1×Full-size P	CIe Mini slot with SIM card holder(wi	th USB signal)
Other	Watch Dog		1~255 levels programmable	
os	Windows		Windows 10 IoT	
	Linux		Ubuntu, CentOS, Debian	
Power	Voltage Input	DC12~24V \pm 10%, overcurrent, overvol	tage and polarity inverse protection, (M	ust be DC24V when using Light Control)
i owei	Power Consumption	Max. 120W	Max. 250W	Max. 200W
	Structure	Aluminum-magnesium alloy E	BOX with fan embedded to assist coo	ling, Wall-mounted or DIN-Rail
Chassis	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
	Work Temperature	-20°	$^{\circ}$ C ~ 60° C (-4° F~ 140° F) with air flow ($^{\circ}$	SSD)
	Storage Temperature	-20°	$^{\circ}$ C ~ 60° C (-4° F~ 140° F) with air flow ($^{\circ}$	SSD)
Reliability	Relative Humidity		5~95%(Non-condensing)	
	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	SD, follow IEC 60068-2-64
	Operating Shock	Operating 20G pe	ak acceleration (11ms duration), follo	ow IEC 60068-2-27
	EMC		CE/FCC Class A	









				Carp and
M	Iodel No.	NP-6122	NP-6122-H1	NP-6122-H1B
	CPU	Intel® Core™ 6th/7	th/8th gen i7/i5/i3/Pentium/Celeron	LGA1151 type CPU
	TDP		Max. 65W	
System	BIOS		AMI UEFI 64Mbit	
	Memory	2×S	SO-DIMM DDR4-2400MHz, max up to 3	32GB
	Storage	1×mSATA	bay, 1×M.2(B Key, Type 2280) bay su	pport SATA
	USB	4×USB3.0	, 1×USB2.0 Type A on the board for I	JSB dongle
	СОМ	2×RS232/RS485, RS	S485 support auto flow control, ESD	protection for RS232
	Ethernet		2×Intel GbE LAN controller	
I/O	PoE	-	4×Intel GbE PoE LAN contr	roller, max. 15W per channel
	DI	-	8×DI NPN/PNP, isolated 2500 Vrms	16×DI NPN/PNP, isolated 2500 Vrms
	DO	-	8×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms	16×DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms
	CAN		-	, , , , , , , , , , , , , , , , , , , ,
	Light Control	-	4×PWM Light power control with external trigger input, Imax: 1A per channel	-
	DVI-D		Support up to 1920×1080	
Display	НДМІ		Support up to 3840×2160	
Audio	Line-out		-	
pansions	Expansions	1×Full-size P	Cle Mini slot with SIM card holder(wi	th USB signal)
Other	Watch Dog		1~255 levels programmable	
	Windows		Windows 10 IoT	
os	Linux		Ubuntu, CentOS, Debian	
	Voltage Input	DC12~24V ±10%, overcurrent, overvol	tage and polarity inverse protection, (M	ust be DC24V when using Light Control)
Power	Power Consumption	Max. 120W	Max. 250W	Max. 200W
	Structure	Aluminum-magnesium alloy E	BOX with fan embedded to assist coo	ling, Wall-mounted or DIN-Rail
Chassis	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
	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)
Reliability	Relative Humidity		5~95%(Non-condensing)	
	Vibration	Operating Random Vibra	ation Test 5~500Hz, 1.5Grms@with SS	SD, follow IEC 60068-2-64
	Operating Shock	Operating 20G pe	ak acceleration (11ms duration), follo	ow IEC 60068-2-27
	EMC		CE/FCC Class A	

NP-6123 SERIES

Ultra-compact Control Cabinet Industrial PC for Robots Control application



NP-6123 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 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.

Latest processor with modular design, very easy for



2×RS232/485

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



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.



No cable design

CPU modular design

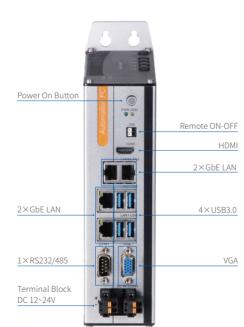
maintenance and upgrade.

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



Wide voltage power supply: DC12V~24V

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







miniPCle Expansion Slot







Customized Logo

NP-6123 SERIES





Model No.		NP-6123	NP-6123-HDD	
	СРИ	Intel® Core™ 6th/7th/8th gen i7/i5/i3/Pentium/Celeron LGA1151 type CPU		
	TDP	Max _o 65W		
System	BIOS	AMI UEFI 64Mbit		
	Memory	2×SO-DIMM DDR4-2400MHz, max up to32GB		
	Storage	1×mSATA bay	$1 \times$ mSATA bay, 1×2.5 "SATA SSD	
	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
	СОМ	1×RS232/RS485, RS485 support auto flow control, ESD protection for RS232		
	Ethernet	4×Intel GbE LAN controller		
I/O	PoE	-		
	DI	-		
	DO	-		
	CAN	-		
Display	Light Control	Support up to 1920×1200		
Display	DVI-D	Support up to 3840×2160		
Audio	HDMI	-		
Expansions	Line-out	-		
Other	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		
US	Linux	Ubuntu, CentOS, Debian		
Power	Voltage Input	DC12~24V $\pm 10\%$, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light C		
rowei	Power Consumption	Max.120W	Max.200W	
	Structure	Aluminum-magnesium alloy BOX with fan embed	dded to assist cooling, Wall-mounted or DIN-Rail	
Chassis	Dimensions(L×W×H)	200mm×154.5mm×57.6mm	200mm×154.5mm×74.6mm	
	Net Weight	1.9Kg	2.4Kg	
Reliability	Work Temperature	$-20^{\circ}\text{C} \sim 60^{\circ}\text{C} (-4^{\circ}\text{F} \sim 140^{\circ}\text{F})$ with air flow (SSD)		
	Storage Temperature	-20°C \sim 60°C (-4°F \sim 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	MC CE/FCC Class A		







NP-6123-MVS	NP-6123-MVS-L1	NP-6123-L4
Intel® Core	™ 6th/7th/8th gen i7/i5/i3/Pentium/Celeron LGA115	1 type CPU
	Max _o 65W	
	AMI UEFI 64Mbit	
	2×SO-DIMM DDR4-2400MHz, max up to32GB	
	1×mSATA bay, 1×2.5"SATA SSD	
4×	USB3.0, 1×USB2.0 Type A on the board for USB dor	gle
2 x COM(DB-9), 1 x selectable to su	pport RS232 or RS485 mode by the switch, RS485 su	pport auto flow control, 1 x RS485
4×Intel GbE LAN controller	5×Intel GbE ŁAN controller	8×Intel GbE LAN controller
	8×DI NPN/PNP, isolated 2500 Vrms	
8×DO,	Fransistor output, Imax:0.5A per channel, isolated 25	00 Vrms
4×PWM Light power control with exte	rnal trigger input, Imax: 1A per channel	-
	Support up to 1920×1200	
	Support up to 3840×2160	
	-	
	-	
×Full-size PCIe Mini slot with SIM card holder	1×Full-size PCIe Mini slot with SIM card holder	-
	1~255 levels programmable	
	Windows 7, Windows 7 Embedded, Windows 10 IoT	
	Ubuntu, CentOS, Debian	
DC12~24V \pm 10%, overcurrent, o	vervoltage and polarity inverse protection, (Must be	DC24V when using Light Control)
Max. 200W	Max. 200W	Max. 200W
Aluminu	ım-magnesium alloy box, Fanless, Wall-mounted or	DIN-Rail
200mm×154.5mm×74.6mm	200mm×154.5mm×74.6mm	200mm×154.5mm×74.6mm
2.4Kg	2.4Kg	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 Rando	om Vibration Test 5~500Hz, 1.5Grms@with SSD, follo	w IEC 60068-2-64
Operating	20G peak acceleration (11ms duration), follow IEC 6	0068-2-27
	CE/FCC Class A	

NP-6125 SERIES

Ultra-compact Control Cabinet Industrial PC with High performance processor



NP-6125 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 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.

Latest processor with modular design, very easy for



2×RS232/485

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



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.



No cable design

CPU modular design

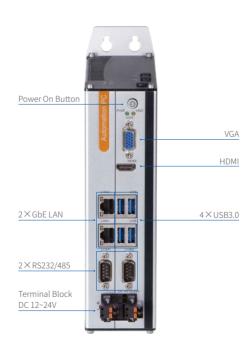
maintenance and upgrade.

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



Wide voltage power supply: DC12V~24V

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



NP-6125



miniPCle Expansion Slot





Easy to switch RS232/RS485



NP-6125 SERIES







Model No.		NP-6125	NP-6125-H1	NP-6125-JH2	
System	СРИ	Intel® Core™ 6th/7th/8th gen i7/i5/i3/Pentium/Celeron LGA1151 type CPU			
	TDP	Max. 65W			
	BIOS	AMI UEFI 64Mbit			
	Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB			
	Storage	$1 \times$ mSATA bay, $1 \times$ M.2(B Key, Type 2280) bay support SATA			
	USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle			
	СОМ	2×RS232/RS485, RS485 support auto flow control, ESD protection for RS232			
	Ethernet		2×Intel GbE LAN controller		
I/O	PoE	-	4×Intel GbE PoE LAN controller, max. 15W per channel	2×Intel GbE PoE LAN controller, max. 15W per channel	
	DI	-	8×DI NPN/PNP, i	solated 2500 Vrms	
	DO	-	8×DO, Transistor output, Imax:0.5	5A per channel, isolated 2500 Vrms	
	CAN		-		
	Light Control	-	4×PWM Light power control with exte	rnal trigger input, Imax: 1A per channel	
Dienlay	VGA	Support up to 1920×1080			
Display 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			
200	Windows	Windows 10 IoT			
OS	Linux	Ubuntu, CentOS, Debian			
Power	Voltage Input	DC12~24V $\pm 10\%$, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Contract the Contract $\pm 10\%$, overcurrent, overvoltage and polarity inverse protection, (Must be DC24V when using Light Contract $\pm 10\%$).			
	Power Consumption	Max. 120W	Max. 250W	Max. 200W	
	Structure	Aluminum-magnesium alloy BOX with fan embedded to assist cooling, Wall-mounted or DIN-Rail			
Chassis	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	
	Work Temperature	-20°C \sim 60°C (-4°F \sim 140°F) with air flow (SSD)			
Reliability	Storage Temperature	-20° C $\sim 60^{\circ}$ C (-4° F $\sim 140^{\circ}$ 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			









		Safe III	
Iodel No.	NP-6125	NP-6125-H1	NP-6125-JH2
СРИ	Intel® Core™ 6th/7	 7th/8th gen i7/i5/i3/Pentium/Celeron	LGA1151 type CPU
TDP	Max. 65W		
BIOS	AMI UEFI 64Mbit		
Memory	2×SO-DIMM DDR4-2400MHz, max up to 32GB		
Storage	$1 \times$ mSATA bay, $1 \times$ M.2(B Key, Type 2280) bay support SATA		
USB	4×USB3.0, 1×USB2.0 Type A on the board for USB dongle		
СОМ	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	2×Intel GbE PoE LAN controller, max. 15W per channel
DI	-	8×DI NPN/PNP, i	solated 2500 Vrms
DO	-	8×DO, Transistor output, Imax:0.5	5A per channel, isolated 2500 Vrms
CAN		-	
Light Control	-	4×PWM Light power control with exte	ernal trigger input, Imax: 1A per channel
VGA	Support up to 1920×1080		
HDMI	Support up to 3840×2160		
Line-out	-		
Expansions	$1 \times$ Full-size PCIe Mini slot with SIM card holder(with USB signal)		
Watch Dog	1~255 levels programmable		
Windows	Windows 10 IoT		
Linux		Ubuntu, CentOS, Debian	
Voltage Input	DC12~24V ±10%, overcurrent, overvo	ltage and polarity inverse protection, (M	lust be DC24V when using Light Control)
Power Consumption	Max. 120W	Max. 250W	Max. 200W
Structure	Aluminum-magnesium alloy	BOX with fan embedded to assist coo	ling, 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
Work Temperature	-20	°C ~ 60°C (-4°F~140°F) with air flow (SSD)
	-20°C ~ 60°C (-4°F~140°F) with air flow (SSD)		
Storage Temperature	-20	7 C - 00 C (-4 1 - 140 1) WILLI ALL HOW (,
Storage Temperature Relative Humidity	-20	5~95%(Non-condensing)	,
Relative Humidity	Operating Random Vibr	5~95%(Non-condensing)	SD, follow IEC 60068-2-64
	TDP BIOS Memory Storage USB COM Ethernet PoE DI DO CAN Light Control VGA HDMI Line-out Expansions Watch Dog Windows Linux Voltage Input Power Consumption Structure Dimensions(L×W×H) Net Weight	CPU Intel® Core™ 6th/7 TDP BIOS Memory 2× Storage 1×mSATA USB 4×USB3.0 COM 2×RS232/RS485, F Ethernet PoE - DI - DO - CAN Light Control - VGA HDMI Line-out Expansions 1×Full-size I Watch Dog Windows Linux Voltage Input DC12~24V ±10%, overcurrent, overvoltage Input Power Consumption Max. 120W Structure Aluminum-magnesium alloy Dimensions(L×W×H) 200mm×154.5mm×57.6mm Net Weight 1.9Kg	CPU TDP Max. 65W BIOS AMI UEFI 64Mbit Memory 2×SO-DIMM DDR4-2400MHz, max up to Storage 1×mSATA bay, 1×M.2(B Key, Type 2280) bay storage USB 4×USB3.0, 1×USB2.0 Type A on the board for COM 2×RS232/RS485, RS485 support auto flow control, ESD Ethernet 2×Intel GbE LAN controller PoE - 4×Intel GbE PoE LAN controller, max. 15W per channel DI - 8×DI NPN/PNP, i DO - 8×DO, Transistor output, Imax:0. CAN Light Control VGA HDMI Line-out Expansions 1×Full-size PCIe Mini slot with SIM card holder(with the sterage) Watch Dog Windows Linux Voltage Input Power Consumption Max. 120W Max. 250W Structure Aluminum-magnesium alloy BOX with fan embedded to assist code Dimensions(L×W×H) Net Weight 1.9Kg 2.4Kg

NP-6118 SERIES

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























NP-6118 series can be widely used in Inspection Devices, Robots, Motion Control and other Automation fields.



Compact design with rugged aluminum alloy housing

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



Display HDMI, DP.



Fanless Design

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



UPS

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



Modular design

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



USB

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



No cable design

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



Super capacitor

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



Fastened power connector

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



Easy for customization

Customized logo, Customized Independent IO.



Model No.		NP-6118-16116OC	
	СРИ	Intel® Celeron J6412, 2.0~2.6GHz, 4 cores/4 threads, 1.5MB L2 cache	
	TDP	10W	
System	BIOS	AMI UEFI 64Mbit	
	Memory	1×SO-DIMM DDR4-2400MHz (max. 16GB)	
	Storage	1× mSATA SSD bay	
	USB	2×USB3.0, 2×USB2.0, 1 x USB2.0 Type A on the board for USB dongle	
	СОМ	1×RS232, 2×RS485	
	Ethernet	$1 \times$ Intel GbE LAN controller, $2 \times$ Realtek GbE LAN controller	
I/O	PoE	-	
	DI	16 x DI NPN/PNP, isolated 2500 Vrms	
	DO	16 x DO, Transistor output, Imax:0.5A per channel, isolated 2500 Vrms	
	CAN	2×CAN Bus 2.0A/B	
	Light Control	-	
	HDMI	Support up to 3840×2160	
Display	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	
05	Linux	Ubuntu	
Power	Voltage Input	DC24V $\pm 10\%$, overcurrent, overvoltage and polarity inverse protection, Super capacitors integrated.	
Fower	Power Consumption	Max. 45W	
Chassis	Structure	Fanless, Wall-mounted or DIN-Rail	
	Dimensions(L \times W \times 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 UPS



NP-6310 is a UPS module that can protect your PC and data in case of power loss, it adapt 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 CAT5/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.

