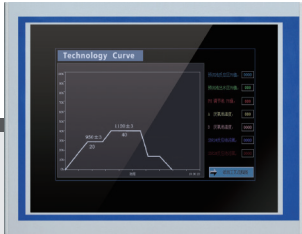


PANEL PC



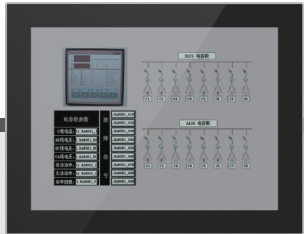
NODKA offers several series of Panel PC products, which are all integrated with excellent design and powerful performance, and meet the different expectation to appearance, performance, function, and Active Area. Over 54 models for your choice, and we support you with highly integrated HMI solutions.

Display Module Option:



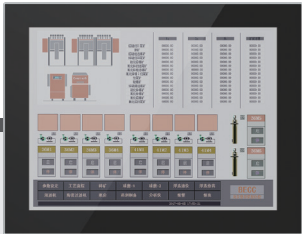
TPC6000-A series

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 12.1",15",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" 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 design, which is convenient to product maintenance, replacement, production and upgrade in future.

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

Intime®
for Windows

EC Win

QNX
QNX SOFTWARE SYSTEMS

VxWorks®
WIND RIVER

Windows
Embedded



CE

FC

RoHS
COMPLIANT
2002/95/EC



Rugged industrial grade design

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



Neutral front Panel

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



5-wire resistive touch screen

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



Flexible modular design

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



Easybus design

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



Wide Work Temperature: -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.



Quickly to do functional setup and maintenance

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



Supports EtherCAT and Jumbo Frames

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



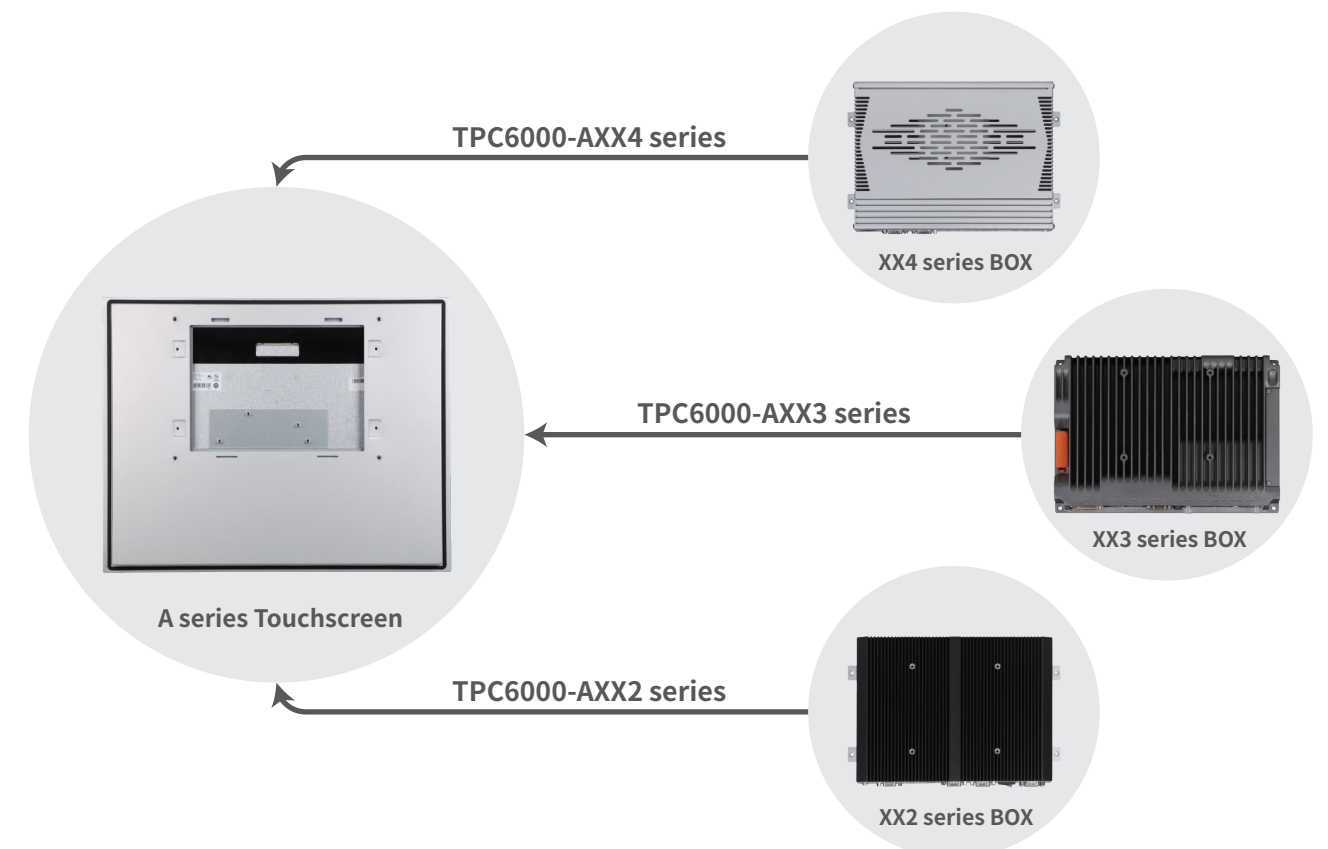
DC12V/24V Power input

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



Vaiour mounting options

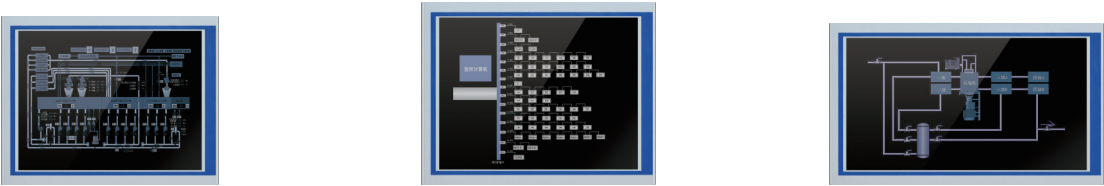
VESA Mount, Panel Mount, Open frame, etc.



TCP6000-AXX4 SERIES

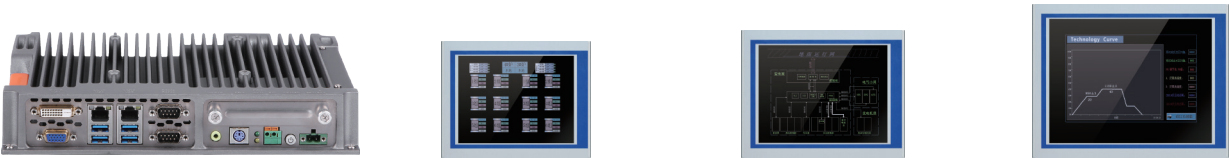


Model No.		TPC6000-A104	TPC6000-A124	TPC6000-A154
Processor	CPU	Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP		
	BIOS	AMI UEFI 64Mbit		
	Chipset	H110		
	Memory	DDR4-2400 MHz, 2×SO-DIMM Slot, Up to 32GB		
	Storage interface	1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA		
I/O	Ethernet	3×Intel 10/100/1000Mbps controller		
	USB	4×USB3.0 / 2×USB2.0		
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card		
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)		
Physical	Dimension (W×H×D)	300.5mm×234.5mm×77mm (11.83"×9.23"×3.03")	321mm×243mm×77mm (12.64"×9.57"×3.03")	395mm×313mm×81mm (15.55"×12.32"×3.19")
	Cut out size	282mm×222mm (11.10"×8.74")	304mm×230mm (11.97"×9.06")	376mm×300mm (14.80"×11.81")
	Net Weight	3.95kg	4.4kg	5.8kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current		
	Idle Mode Power Consumption	22Watt	25Watt	28Watt
LCD	LCD Type	10.4" SVGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	800×600	1024×768	1024×768
	Colors	16.2MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.264×0.264	0.240×0.240	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	800 : 1	700 : 1
Touchscreen	Viewing Angle	(L) 80 / (R) 80 / (T) 65 / (B) 75	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80
	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
Environmental	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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

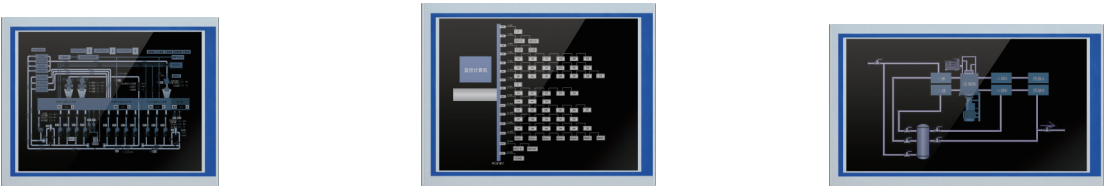


TPC6000-A174	TPC6000-A194	TPC6000-A2154
Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP		
AMI UEFI 64Mbit		
H110		
DDR4-2400 MHz, 2×SO-DIMM Slot, Up to 32GB		
1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA		
3×Intel 10/100/1000Mbps controller		
4×USB3.0 / 2×USB2.0		
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)		
434mm×342mm×81mm (17.09"×13.46"×3.19")	466mm×370mm×80mm (18.35"×14.57"×3.15")	550mm×342mm×87mm (21.65"×13.46"×3.43")
411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
6.5kg	7.5kg	8.5kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current		
30Watt	35Watt	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 (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
50000hrs	30000hrs	50000hrs
0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	250cd/m ²	250cd/m ²
1000 : 1	1000 : 1	1000 : 1
(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Resistive touch screen		
4096×4096		
> 75%		
USB		
Windows 7, Windows8, Windows10, Linux		
< 5ms		
Mohs' Hardness 3H		
250g / 35,000,000 times		
250g / 5,000,000 times		
-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 (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		

TCP6000-AXX3 SERIES

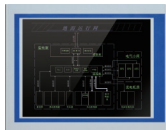


Model No.		TPC6000-A103	TPC6000-A123	TPC6000-A153
Processor	CPU	Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U		
	Main Frequency	Quad core 2.0GHz / Dual Core 1.8GHz / Quad core 2.0GHz / Dual Core 2.5GHz		
	L3 Cache	1.5MB/2MB/2MB/3MB		
	Chipset	Integrated PCH-LP		
	Memory	1×DDR4-2400MHz, max 16GB / 1×DDR4-2400MHz, max 16GB / 1×DDR3L-1333MHz, max 8GB / 1×DDR3L-1600MHz, max 8GB		
	Storage interface	1×2.5" SATA bay + 1×mSATA		
I/O	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection,lightning protection design and 15KV ESD protection		
	Audio	Optional		
	USB	4×USB3.0 / 2.0/1.1		
	COM	2×RS232 / RS485 with surge protection,RS485 support automatic flow control		
	Expansion slot	1×Mini-PCle slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot		
	I/O port	DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
Physical	Dimension (W×H×D)	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")
	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		
Power	DC input	DC 12~24V±10% , support reverse polarity protection,overvoltage protection,overcurrent protection		
	Power Dissipation (Max.)	33.6Watt	36.6Watt	38.6Watt
LCD	LCD Type	10.4" SVGA TFT	12.1" XGA TFT	15" XGA TFT
	Resolution	800×600	1024×768	1024×768
	Colors	16.2MB	16.7MB	16.2MB
	Active Area (W×H)	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.264×0.264	0.240×0.240	0.297×0.297
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	800 : 1	700 : 1
	Viewing Angle	(L) 80 / (R) 80 / (T) 65 / (B) 75	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

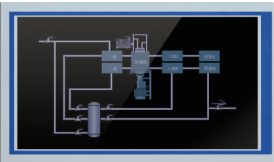
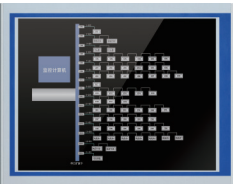
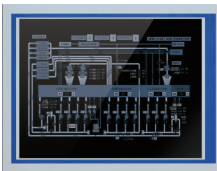


TPC6000-A173	TPC6000-A193	TPC6000-A2153
Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U		
Quad core 2.0GHz / Dual Core 1.8GHz / Quad core 2.0GHz / Dual Core 2.5GHz		
1.5MB/2MB/2MB/3MB		
Integrated PCH-LP		
1×DDR4-2400MHz, max 16GB / 1×DDR4-2400MHz, max 16GB / 1×DDR3L-1333MHz, max 8GB / 1×DDR3L-1600MHz, max 8GB		
1×2.5" SATA bay + 1×mSATA		
2×Intel 1000Mbps RJ-45 with surge protection,lightning protection design and 15KV ESD protection		
Optional		
4×USB3.0 / 2.0/1.1		
2×RS232 / RS485 with surge protection,RS485 support automatic flow control		
1×Mini-PCle slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot		
DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
434mm×342mm×73mm (17.09"×13.46"×2.87")	466mm×370mm×72mm (18.35"×14.57"×2.83")	550mm×342mm×79mm (21.65"×13.46"×3.11")
411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
6.35kg	7.15kg	8.3kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12~24V±10% , support reverse polarity protection,overvoltage protection,overcurrent protection		
40.6Watt	42.6Watt	46.4Watt
17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1280×1024	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB
338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
50000hrs	30000hrs	50000hrs
0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	250cd/m ²	250cd/m ²
1000 : 1	1000 : 1	1000 : 1
(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Resistive touch screen		
4096×4096		
> 75%		
USB		
Windows 7, Windows8, Windows10, Linux		
< 5ms		
Mohs' Hardness 3H		
250g / 35,000,000 times		
250g / 5,000,000 times		
-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 (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		

TCP6000-AXX2 SERIES



Model No.		TPC6000-A082	TPC6000-A102	TPC6000-A122
Processor	CPU	Intel® Celeron® J1900		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB		
	Storage interface	1×2.5" SATA bay + 1×mSATA		
I/O	Ethernet	2×Realtek 1000Mbps RJ-45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		
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)		
	Expansion slot	1×Mini-PCle slot, extensible 3G,WIFI wireless card		
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM		
Physical	Dimension (W×H×D)	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")
	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		
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)		
	Power Dissipation (Max.)	33Watt	33.6Watt	36.6Watt
LCD	LCD Type	8" SVGA TFT	10.4" SVGA TFT	12.1" XGA TFT
	Resolution	800×600	800×600	1024×768
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	162mm×121.5mm (6.38"×4.78")	211.2mm×158.4mm (8.31"×6.24")	246mm×184mm (9.69"×7.24")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	30000hrs	30000hrs
	Pixel Pitch (H×V)	0.2025×0.2025	0.264×0.264	0.240×0.240
	Luminance	250cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	500 : 1	800 : 1	800 : 1
	Viewing Angle	(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	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	-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)		
	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	Front panel IP65		
	Water-proof			



TPC6000-A152	TPC6000-A172	TPC6000-A192	TPC6000-A2152
Intel® Celeron® J1900			
Quad core 2.0GHz			
2MB			
Intel Bay trail SOC			
1×DDR3L-1333, max 8GB			
1×2.5" SATA bay + 1×mSATA			
2×Realtek 1000Mbps RJ-45以with surge protection,lightning protection design and 15KV ESD protection			
Optional			
1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1			
1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)			
1×Mini-PCle slot, extensible 3G,WIFI wireless card			
VGA / HDMI / 2×GLAN / 4×USB / 6×COM			
395mm×313mm×73mm (15.55"×12.32"×2.87")	434mm×342mm×73mm (17.09"×13.46"×2.87")	466mm×370mm×72mm (18.35"×14.57"×2.83")	550mm×342mm×79mm (21.65"×13.46"×3.11")
376mm×300mm (14.80"×11.81")	411mm×325mm (16.18"×12.80")	443mm×352mm (17.44"×13.86")	533mm×325mm (20.98"×12.80")
5.15kg	6.05kg	6.9kg	8.18kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX			
DC 12V, support reverse polarity protection, +9~+30V (Option)			
38.6Watt	40.6Watt	42.6Watt	46.4Watt
15" XGA TFT	17" SXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1024×768	1280×1024	1280×1024	1920×1080
16.2MB	16.7MB	16.7MB	16.7MB
304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED	WLED
50000hrs	50000hrs	30000hrs	50000hrs
0.297×0.297	0.264×0.264	0.294×0.294	0.248×0.248
350cd/m ²	350cd/m ²	250cd/m ²	250cd/m ²
700 : 1	1000 : 1	1000 : 1	1000 : 1
(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Resistive touch screen			
4096×4096			
> 75%			
USB			
Windows 7, Windows8, Windows10, Linux			
< 5ms			
Mohs' Hardness 3H			
250g / 35,000,000 times			
250g / 5,000,000 times			
-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 (Non-condensation)			
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64			
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27			
CE/FCC Class B			
Front panel IP65			

TPC6000-C SERIES

Modular Industrial Panel PC with Bezel free Capacitive Multi-touch



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

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

INtime
for Windows

EC Win

QNX
QNX SOFTWARE SYSTEMS

VxWorks®
WIND RIVER

Windows
Embedded



CE

FC

RoHS
COMPLIANT
2002/95/EC



Rugged industrial grade design

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



Neutral front Panel

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



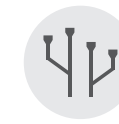
Projected capacitive touch screen

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



Flexible modular design

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



Easybus design

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



Wide Work Temperature: -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.



Quickly to do functional setup and maintenance

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



Supports EtherCAT and Jumbo Frames

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



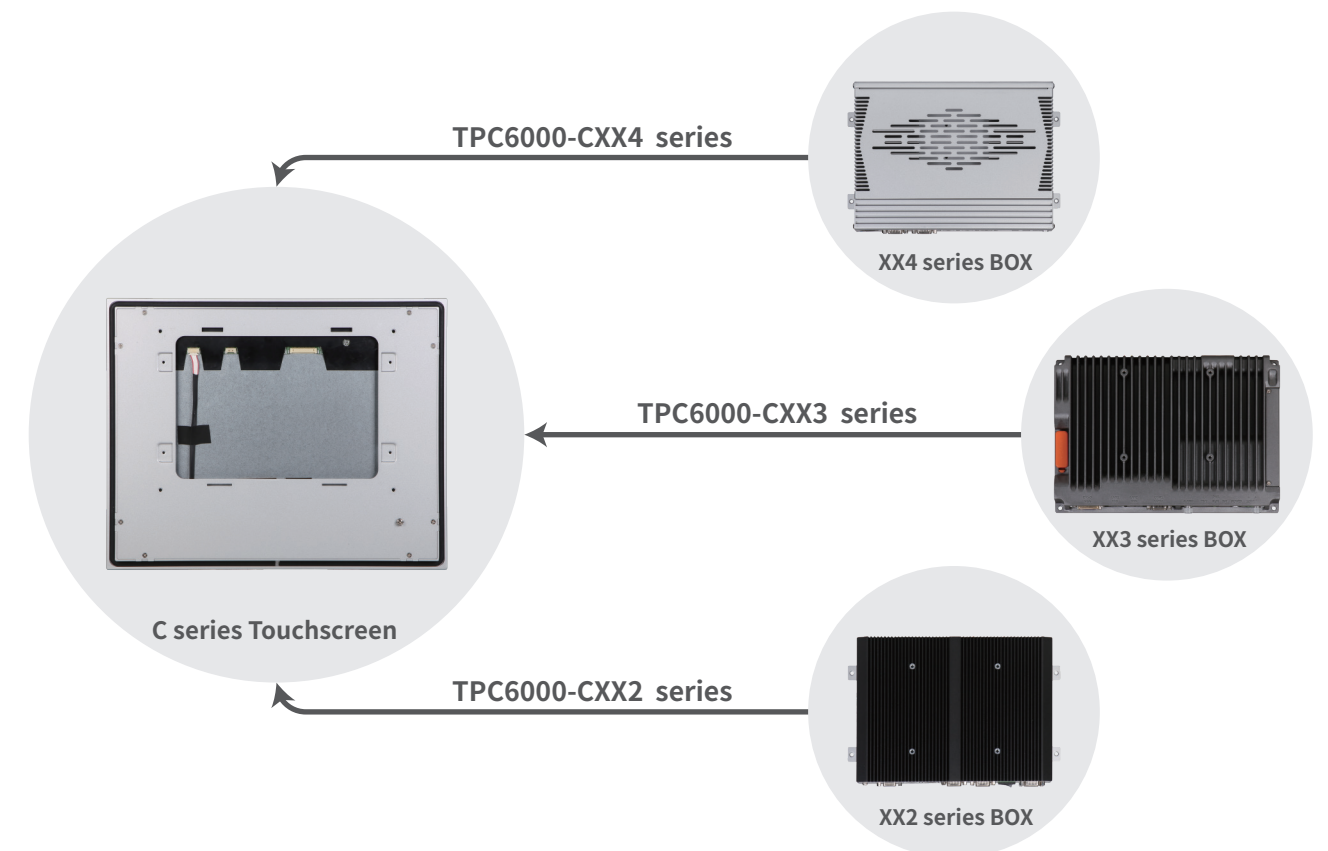
DC12V/24V Power input

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



Various mounting options

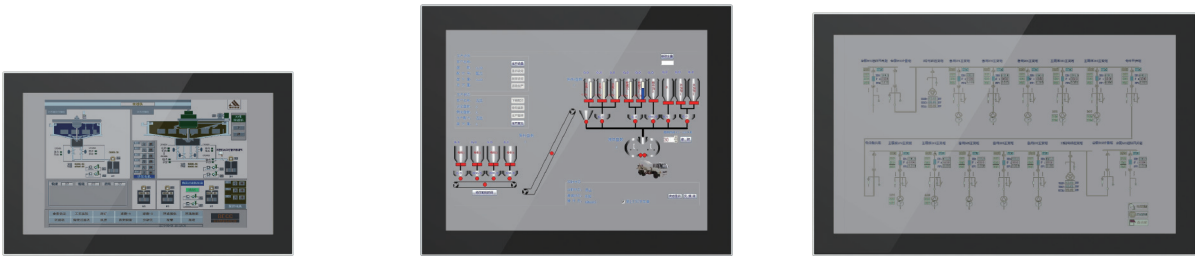
VESA Mount, Panel Mount, Open frame, etc.



TCP6000-CXX4 SERIES



Model No.		TPC6000-C124	TPC6000-C154	TPC6000-C174
Processor	CPU	Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP		
	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×mSATA		
I/O	Ethernet	3×Intel 10/100/1000Mbps controller		
	USB	4×USB3.0 / 2×USB2.0		
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card		
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)		
Physical	Dimension(W×H×D)	321mm×247mm×74mm (12.64"×9.72"×2.91")	371mm×295mm×74mm (14.60"×11.61"×2.91")	428mm×342mm×74mm (16.85"×13.46"×2.91")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.7kg	4.7kg	5.7kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
	Idle Mode Power Consumption	25Watt	28Watt	30Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
Touchscreen	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
	Touchscreen type	Capacitive Touchscreen		
	Transmittance	> 87%		
	Controller interface	USB		
	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

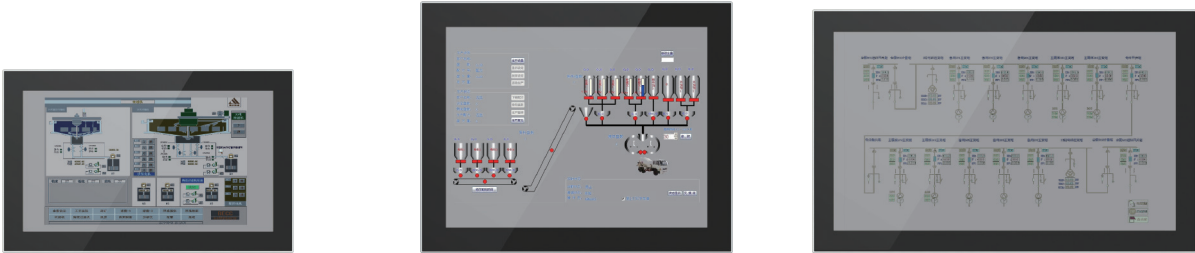


TPC6000-C1854	TPC6000-C194	TPC6000-C2154
Intel® Core™ 6/7/8/9th i7/i5/i3 , Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP		
AMI UEFI 64Mbit		
H110		
DDR4-2400 MHz, 2×SO-DIMM Slot, Up to 32GB		
1×M.2 (M Key 2280 PCIe Gen3×4 Lane) + 1×mSATA		
3×Intel 10/100/1000Mbps controller		
4×USB3.0 / 2×USB2.0		
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)		
480mm×304mm×74mm (18.90"×11.97"×2.91")	460mm×369mm×74mm (18.11"×14.53"×2.91")	550mm×342mm×74mm (21.65"×13.46"×2.91")
463mm×287mm (18.23"×11.30")	442mm×351mm (17.40"×13.82")	533mm×325mm (20.98"×12.80")
5.9kg	6.5kg	6.9kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
34Watt	37Watt	40Watt
18.5" WXGA TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB
409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
50000hrs	30000hrs	50000hrs
0.300×0.300	0.294×0.294	0.248×0.248
450cd/m ²	250cd/m ²	250cd/m ²
1000 : 1	1000 : 1	1000 : 1
(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Capacitive Touchscreen		
> 87%		
USB		
Windows7, Windws 8, Windows 10, Linux		
10 points (windows system)		
Mohs' Hardness 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 (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		

TCP6000-CXX3 SERIES



Model No.		TPC6000-C123	TPC6000-C153	TPC6000-C173
Processor	CPU	Intel® Celeron® 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		
	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×mSATA		
I/O	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection,lightning protection design and 15KV ESD protection		
	Audio	Optional		
	USB	4×USB3.0 / 2.0/1.1		
	COM	2×RS232 / RS485 with surge protection,RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot		
	I/O port	DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
Physical	Dimension(W×H×D)	321mm×247mm×66mm (12.64"×9.72"×2.60")	371mm×295mm×66mm (14.60"×11.61"×2.60")	428mm×342mm×66mm (16.85"×13.46"×2.60")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.54kg	4.54kg	5.54kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
	Power Dissipation (Max.)	37Watt	36.6Watt	38.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m²	350cd/m²	350cd/m²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
Touchscreen	Touchscreen type	Capacitive Touchscreen		
	Transmittance	> 87%		
	Controller interface	USB		
	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

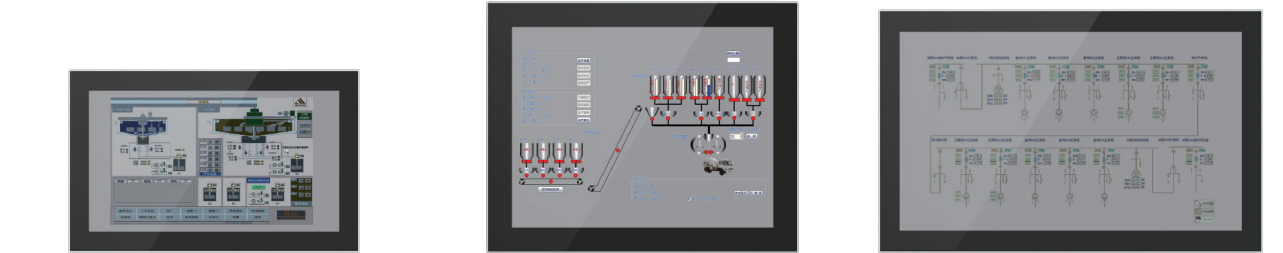


TPC6000-C1853	TPC6000-C193	TPC6000-C2153
Intel® Celeron® J6412 / 4205U / J1900 / Core™ i5 7200U		
Quad core 2.0GHz / Dual Core 1.8GHz / Quad core 2.0GHz / Dual Core 2.5GHz		
1.5MB/2MB/2MB/3MB		
Integrated PCH-LP		
1×DDR4-2400MHz, max 16GB / 1×DDR4-2400MHz, max 16GB / 1×DDR3L-1333MHz, max 8GB / 1×DDR3L-1600MHz, max 8GB		
1×2.5" SATA bay + 1×mSATA		
2×Intel 1000Mbps RJ-45 with surge protection,lightning protection design and 15KV ESD protection		
Optional		
4×USB3.0 / 2.0/1.1		
2×RS232 / RS485 with surge protection,RS485 support automatic flow control		
1×Mini-PCIe slot, extensible 3G,WIFI wireless card; 1×EasyBUS slot		
DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
480mm×304mm×66mm (18.90"×11.97"×2.60") 463mm×287mm (18.23"×11.30")	460mm×369mm×66mm (18.11"×14.53"×2.60") 442mm×351mm (17.40"×13.82")	550mm×342mm×66mm (21.65"×13.46"×2.60") 533mm×325mm (20.98"×12.80")
5.8kg	6.38kg	6.76kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
40.6Watt	42.6Watt	48Watt
18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB
409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
30000hrs	30000hrs	50000hrs
0.300×0.300	0.294×0.294	0.248×0.248
250cd/m²	250cd/m²	250cd/m²
1000 : 1	1000 : 1	1000 : 1
(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Capacitive Touchscreen		
> 87%		
USB		
Windows7, Windws 8, Windows 10, Linux		
10 points (windows system)		
Mohs' Hardness 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 (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		

TCP6000-CXX2 SERIES



Model No.		TPC6000-C122	TPC6000-C152	TPC6000-C172
Processor	CPU	Intel® Celeron® J1900		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB		
	Storage interface	1×2.5" SATA bay + 1×mSATA		
I/O	Ethernet	2×Realtek 1000Mbps RJ-45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		
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)		
	Expansion slot	1×Mini-PCle slot, extensible 3G,WIFI wireless card		
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM		
Physical	Dimension(W×H×D)	321mm×247mm×75mm (12.64"×9.72"×2.95")	371mm×295mm×75mm (14.60"×11.61"×2.95")	428mm×342mm×75mm (16.85"×13.46"×2.95")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.34kg	4.34kg	5.34kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)		
	Power Dissipation (Max.)	36.6Watt	38.6Watt	40.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m²	350cd/m²	350cd/m²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
Touchscreen	Touchscreen type	Capacitive Touchscreen		
	Transmittance	> 87%		
	Controller interface	USB		
	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		



TPC6000-C1852	TPC6000-C192	TPC6000-C2152
Intel® Celeron® J1900		
Quad core 2.0GHz		
2MB		
Intel Bay trail SOC		
1×DDR3L-1333, max 8GB		
1×2.5" SATA bay + 1×mSATA		
2×Realtek 1000Mbps RJ-45以with surge protection,lightning protection design and 15KV ESD protection		
Optional		
1×USB3.0 / 2.0 / 1.1, 3×USB2.0 / 1.1		
1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)		
1×Mini-PCle slot, extensible 3G,WIFI wireless card		
VGA / HDMI / 2×GLAN / 4×USB / 6×COM		
480mm×304mm×75mm (18.90"×11.97"×2.95") 463mm×287mm (18.23"×11.30")	460mm×369mm×75mm (18.11"×14.53"×2.95") 442mm×351mm (17.40"×13.82")	550mm×342mm×75mm (21.65"×13.46"×2.95") 533mm×325mm (20.98"×12.80")
5.8kg	6.18kg	6.76kg
Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
DC 12V, support reverse polarity protection, +9~+30V (Option)		
42.6Watt	44.6Watt	48Watt
18.5" HD TFT	19" SXGA TFT	21.5" Full HD TFT
1366×768	1280×1024	1920×1080
16.7MB	16.7MB	16.7MB
409.8mm×230.4mm (16.13"×9.07")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
WLED	WLED	WLED
30000hrs	30000hrs	50000hrs
0.300×0.300	0.294×0.294	0.248×0.248
250cd/m²	250cd/m²	250cd/m²
1000 : 1	1000 : 1	1000 : 1
(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
Capacitive Touchscreen		
> 87%		
USB		
Windows7, Windws 8, Windows 10, Linux		
10 points (windows system)		
Mohs' Hardness 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 (Non-condensation)		
Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
CE/FCC Class B		
Front panel IP65		

TPC6000-D SERIES

Modular Industrial Panel PC with Bezel free Resistive Touchscreen



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

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

Intime
for Windows

EC → **Win**

QNX
QNX SOFTWARE SYSTEMS

VxWorks
WIND RIVER

Windows
Embedded



CE

FC

RoHS
COMPLIANT
2002/95/EC



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



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



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



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



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



Wide Work Temperature: -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.



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



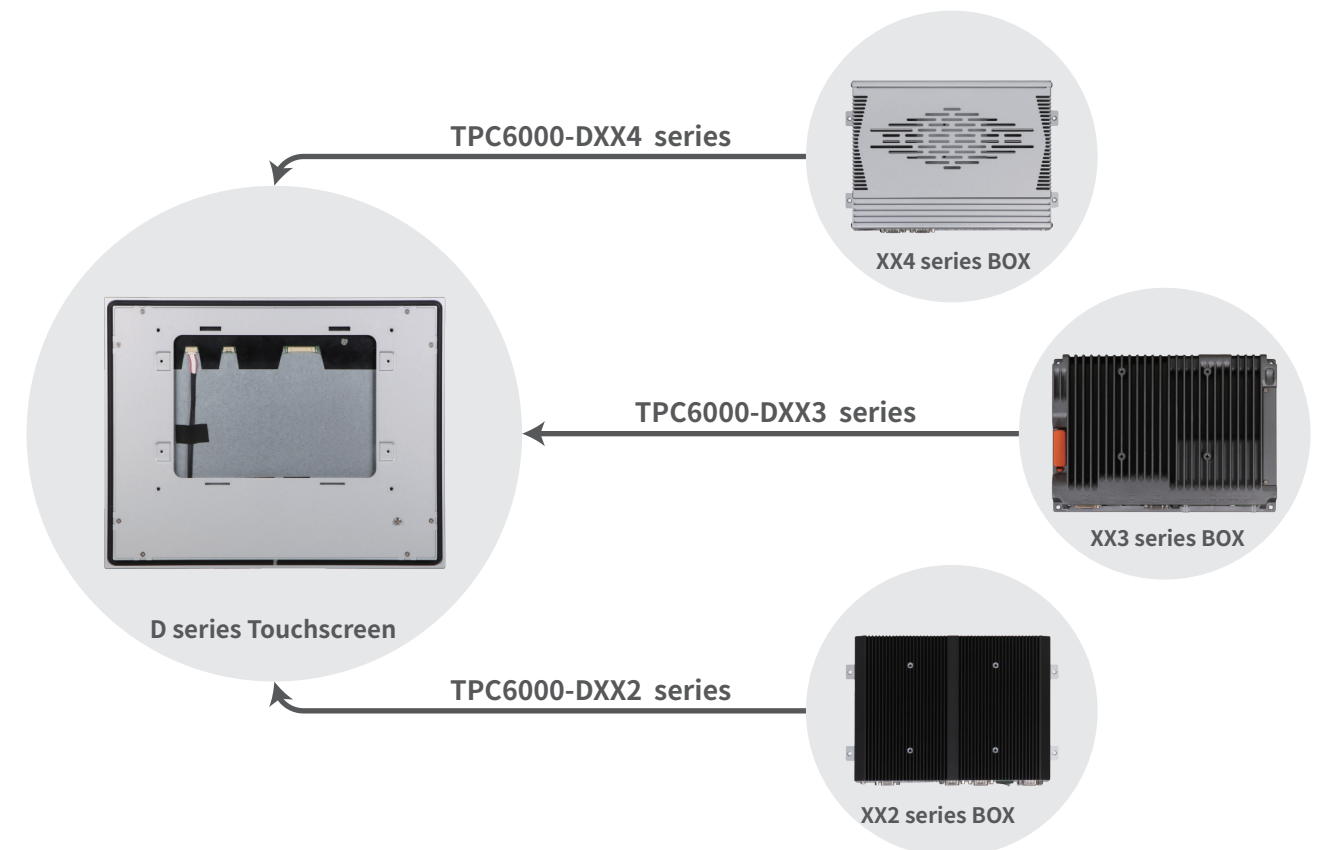
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



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



Various mounting options
VESA Mount, Panel Mount, Open frame, etc.



TCP6000-DXX4 SERIES



Model No.		TPC6000-D124	TPC6000-D154	TPC6000-D174
Processor	CPU	Intel® Core™ 6/7/8/9th i7/i5/i3, Pentium® and Celeron® LGA1151 type CPU. Max.65W TDP		
	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×mSATA		
I/O	Ethernet	3×Intel 10/100/1000Mbps controller		
	USB	4×USB3.0 / 2×USB2.0		
	COM	4×RS232 / RS485 Interface with surge protection, RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card		
	I/O port	8DI + 8DO Wet contact input (24V) , OC gate output (24V 300mA)		
Physical	Dimension (W×H×D)	321mm×247mm×74mm (12.64"×9.72"×2.91")	371mm×295mm×74mm (14.60"×11.61"×2.91")	428mm×342mm×74mm (16.85"×13.46"×2.91")
	Cut out size	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.7kg	4.7kg	5.7kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over voltage protection, over current		
	Idle Mode Power Consumption	25Watt	28Watt	30Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

TCP6000-DXX3 SERIES



Model No.		TPC6000-D123	TPC6000-D153	TPC6000-D173
Processor	CPU	Intel® Celeron® 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		
	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×mSATA		
I/O	Ethernet	2×Intel 1000Mbps RJ-45 with surge protection, lightning protection design and 15KV ESD protection		
	Audio	Optional		
	USB	4×USB3.0 / 2.0/1.1		
	COM	2×RS232 / RS485 with surge protection, RS485 support automatic flow control		
	Expansion slot	1×Mini-PCIe slot, extensible 3G, WIFI wireless card; 1×EasyBUS slot		
	I/O port	DVI-D / 2×GLAN / 4×USB / 2×COM / 2×PS2 / Line-out / Mic-in		
Physical	Dimension (W×H×D)	321mm×247mm×66mm (12.64"×9.72"×2.60")	371mm×295mm×66mm (14.60"×11.61"×2.60")	428mm×342mm×66mm (16.85"×13.46"×2.60")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.54kg	4.54kg	5.54kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12~24V±10% , support reverse polarity protection, overvoltage protection, overcurrent protection		
	Idle Mode Power Consumption	36.6Watt	38.6Watt	40.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
Touchscreen	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
	Draw life	250g / 5,000,000 times		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		

TCP6000-DXX2 SERIES



Model No.		TPC6000-D122	TPC6000-D152	TPC6000-D172
Processor	CPU	Intel® Celeron® J1900		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB		
	Storage interface	1×2.5" SATA bay + 1×mSATA		
I/O	Ethernet	2×Realtek 1000Mbps RJ-45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		
	COM	1×RS232 / 485 (COM1), 5×RS232 (Optional 2xRS48,RS485 support automatic flow control)		
	Expansion slot	1×Mini-PCle slot, extensible 3G,WIFI wireless card		
	I/O port	VGA / HDMI / 2×GLAN / 4×USB / 6×COM		
Physical	Dimension (W×H×D)	321mm×247mm×75mm (12.64"×9.72"×2.95")	371mm×295mm×75mm (14.60"×11.61"×2.95")	428mm×342mm×75mm (16.85"×13.46"×2.95")
	Cut out size(W×H)	304mm×230mm (11.97"×9.06")	354mm×278mm (13.94"×10.94")	411mm×325mm (16.18"×12.80")
	Net Weight	3.3kg	4.34kg	5.34kg
OS	OS	Windows 7, Windows 7 Embedded, Windows 8, Windows 10, Linux, VxWorks, QNX		
Power	DC input	DC 12V, support reverse polarity protection, +9~+30V (Option)		
	Idle Mode Power Consumption	36.6Watt	38.6Watt	40.6Watt
LCD	LCD Type	12.1" XGA TFT	15" XGA TFT	17" SXGA TFT
	Resolution	1024×768	1024×768	1280×1024
	Colors	16.7MB	16.2MB	16.7MB
	Active Area (W×H)	246mm×184mm (9.69"×7.24")	304mm×228mm (11.97"×8.98")	338mm×270mm (13.31"×10.63")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	30000hrs	50000hrs	50000hrs
	Pixel Pitch (H×V)	0.240×0.240	0.297×0.297	0.264×0.264
	Luminance	350cd/m ²	350cd/m ²	350cd/m ²
	Contrast Ratio	800 : 1	700 : 1	1000 : 1
Touchscreen	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80
	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
Environmental	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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	Front panel IP65		



For Your Future
Automation Computing Solutions.

WP SERIES

WP Series Industrial Panel PCs - Designed for Harsh Environments



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

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

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



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



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



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



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



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



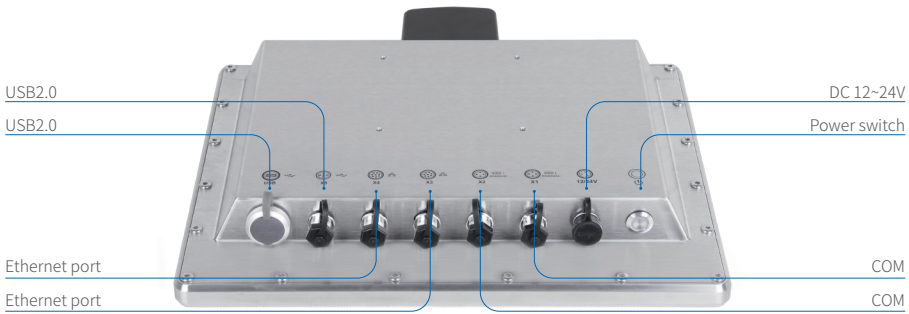
M12 type plug
All interfaces use waterproof aviation plugs which are waterproof, corrosion-resistant, chemical-resistant, detergent-resistant, and disinfectant-resistant.



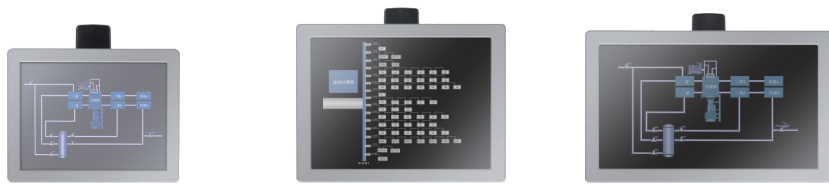
Supports EtherCAT and Jumbo Frames
The Ethernet ports with high speed EtherCAT and jumbo frames support.



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



WPXXXXT-R1 SERIES



Model No.		WP1501T-R1	WP1901T-R1	WP2151T-R1
Processor	CPU	Intel® Celeron® J1900		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB		
	Storage interface	1×mSATA		
I/O	Ethernet	2×Intel 1000Mbps		
	Audio	NULL		
	USB	2×USB2.0		
	COM	2×RS232(option RS485 before ordering)		
	Expansion slot	Mini-PCle slot, Option either Wifi or 4G/3G module (Default: wifi)		
Physical	Dimension (W×H×D)	360mm×284mm×54mm (14.17"×11.18"×2.13")	440mm×365mm×54mm (17.32"×14.37"×2.13")	540mm×332mm×54mm (21.26"×13.07"×2.13")
	Mounting	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA
	Net Weight	5.4kg	7.9kg	8.6kg
OS	OS	Windows7, Windows8, Windows10, Linux		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over current protection		
	Idle Mode Power Consumption	38.6Watt	42Watt	46Watt
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
Touchscreen	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
	Touchscreen type	Resistive touch screen		
	Resolution	4096×4096		
	Transmittance	> 75%		
	Controller interface	USB		
	Driver Support	Windows 7, Windows8, Windows10, Linux		
	Response Time (touch Pen)	< 5ms		
	Surface Hardness	Mohs' Hardness 3H		
	Click Life	250g / 35,000,000 times		
Environmental	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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	The whole machine IP69K		

WPXXXXT-C SERIES



Model No.		WP1501T-C	WP1901T-C	WP2151T-C
Processor	CPU	Intel® Celeron® J1900		
	Main Frequency	Quad core 2.0GHz		
	L3 Cache	2MB		
	Chipset	Intel Bay trail SOC		
	Memory	1×DDR3L-1333, max 8GB		
	Storage interface	1×mSATA		
I/O	Ethernet	2×Intel 1000Mbps		
	Audio	NULL		
	USB	2×USB2.0		
	COM	2×RS232(option RS485 before ordering)		
	Expansion slot	Mini-PCle slot, Option either Wifi or 4G/3G module (Default: wifi)		
Physical	Dimension(W×H×D)	360mm×284mm×54mm (14.17"×11.18"×2.13")	440mm×365mm×54mm (17.32"×14.37"×2.13")	540mm×332mm×54mm (21.26"×13.07"×2.13")
	Cut out size(W×H)	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA	Wall-mounted, Desktop, VESA
	Net Weight	5.3kg	7.9kg	8.6kg
OS	OS	Windows7, Windows8, Windows10, Linux		
Power	DC input	DC 12~24V±10% , Support reverse connection protection, over current protection		
	Power Dissipation (Max.)	38.6Watt	42Watt	46Watt
LCD	LCD Type	15" XGA TFT	19" SXGA TFT	21.5" Full HD TFT
	Resolution	1024×768	1280×1024	1920×1080
	Colors	16.2MB	16.7MB	16.7MB
	Active Area (W×H)	304mm×228mm (11.97"×8.98")	376.3mm×301mm (14.81"×11.85")	476mm×268mm (18.74"×10.55")
	Backlight	WLED	WLED	WLED
	MTBF (hour)	50000hrs	30000hrs	50000hrs
	Pixel Pitch (H×V)	0.297×0.297	0.294×0.294	0.248×0.248
	Luminance	350cd/m ²	250cd/m ²	250cd/m ²
	Contrast Ratio	700 : 1	1000 : 1	1000 : 1
Touchscreen	Viewing Angle	(L) 80 / (R) 80 / (T) 80 / (B) 80	(L) 85 / (R) 85 / (T) 80 / (B) 80	(L) 89 / (R) 89 / (T) 89 / (B) 89
	Touchscreen type	Capacitive Touchscreen		
	Transmittance	> 87%		
	Controller interface	USB		
	Driver Support	Windows7, Windws 8, Windows 10, Linux		
	Multi-touch	10 points (windows system)		
	Surface Hardness	Mohs' Hardness 7H		
Environmental	Work Temperature	-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)		
	Vibration	Operating Random Vibration Test 5~500Hz, 1.5Grms@with SSD, follow IEC 60068-2-64		
	Shock	Operating 20G peak acceleration (11ms duration), follow IEC 60068-2-27		
	EMC	CE/FCC Class B		
	Water-proof	The whole machine IP69K		