

5th Gen I Ruggedized X86 All-in-One Panel PC

Ultra narrow frame, flat panel, aluminum alloy structure, fully enclosed design. Equipped with fan less I series high configuration motherboard, high-speed storage solution. It has 10.1"-21.5" dimensions for selection, supports embedded, desktop, wall mounted and other diversified installations, and is widely used in industrial control, military, communication, power, network, intelligent self-service terminal equipment and other automation applications.

Features >>

- Narrow frame design, independent mold opening.
- Aluminum alloy one-piece die casting, efficient heat dissipation.
- Self developed fanless industrial motherboard with X86 architecture, with a variety of options, Up to Intel 10th Gen Core™ i3 processor.
- Anti vibration radiation layout, process structure design, seismic stability, safety and reliability, industrial quality.
- It is suitable for dust, oil, water mist, strong electromagnetic, high-frequency vibration and other complex heavy industrial environments.
- Support desktop, wall mounted, embedded, cantilever, boom and other installation methods.



10.1"~21.5" optional



Product Model >>

Product size	Non-touch	Capacitive Touch	Resistive Touch	Resolution	Screen Scale	Brightness	Contrast ratio	Viewing Angle	Back Cover Style
10.1"	TPC101-W500	TPC101-W510	TPC101-W520	1280*800	16:10	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (10.1-12 inch small back cover)
10.4"	TPC104-W500	TPC104-W510	TPC104-W520	1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-W500	TPC116-W510	TPC116-W520	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12"	TPC120-W500	TPC120-W510	TPC120-W520	1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (15-21.5 inch large back cover)
15"	TPC150-W500	TPC150-W510	TPC150-W520	1024*768	4:3	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
15.6"	TPC156-W500	TPC156-W510	TPC156-W520	1920*1080	16:9	300cd/m ²	800:1	85/85/85/85 (L/R/U/D)	
17"	TPC170-W500	TPC170-W510	TPC170-W520	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-W500	TPC173-W510	TPC173-W520	1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
19"	TPC190-W500	TPC190-W510	TPC190-W520	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-W500	TPC191-W510	TPC191-W520	1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-W500	TPC215-W510	TPC215-W520	1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	

Product Installation >>



Product Specifications >>

Hardware Configuration

CPU	Intel Core I3-6100U	Intel Core I3-8145U	Intel Core I3-10110U
CPU frequency	2.3GHz	2.1GHz	2.1GHz
Integrated graphics	Intel HD Graphics 520	Intel HD Graphics 620	Intel UHD Graphics 620
RAM	4G DDR4 (Optional 8/16/32G)	4G DDR4 (Optional 8/16/32G)	8G DDR4 (Optional 16/32/64G)
Storage	128GB SSD(256GB/512GB SSD, 1T/2T HDD optional)		
System	Win7/10/11, Ubuntu/Centos/Redhat/Debian/Linux		
WIFI	2.4GHz / 5GHz dual bands		
Bluetooth	BT4.0(Optional)		

Touch Screen

Capacitive Touch	Touch screen type: 10 point touch projection capacitive touch screen Light transmittance: $\geq 88\%$ Input mode: handwriting or capacitive pen Controller communication: USB
Resistive Touch	Touch screen type: single point resistive touch screen Light transmittance: $\geq 78\%$ Input mode: Fingertip or stylus Controller communication: USB
Non touch	Light transmittance: $\geq 92\%$

Reliability parameters

working temperature	Operating temperature: -10°C – 60°C , storage temperature: -20°C – 70°C
Operating humidity	Humidity: 95% non condensing
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 11ms
Product certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

Power input	12V-36V power input
Static power	18W
Fuselage Properties	Body material: aluminum alloy, body color: classic black, technical silver
warranty policy	Three years (one year free warranty)
Installation method	Support embedded, wall mounted, desktop, louver, cantilever, boom and other installation methods

I/O Interface

Power interface1	1*Industrial terminal, Support 12V-36V wide voltage power supply
Power interface2	1*DC2.5, Support 12V-36V wide voltage power supply
USB	2*USB 3.0, 2*USB 2.0
LAN	2*LAN,10M/100M/1000M adaptive Ethernet
HDMI	1*HDMI, Support HDMI data output, maximum support 4K
SIM	1*SIM, SIM card interface standard interface supports various formats (depending on 3G / 4G module)
VGA	1*VGA
AUDIO	1*Audio Out, Support audio output, Headphone stand: 3.5mm standard interface
POWER	1*Power key
WiFi Antenna	2*WiFi antenna
Grounding column	Support(1*GND)

Interface Distribution >>



Only the 15 inch interface is displayed. Please refer to the actual object for details.

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Features >>

- Narrow frame design, independent mold opening.
- Aluminum alloy one-piece die casting, efficient heat dissipation.
- Self developed fanless industrial motherboard with X86 architecture, with a variety of options, Up to Intel 10th Gen Core™ i5 processor.
- Anti vibration radiation layout, process structure design, seismic stability, safety and reliability, industrial quality.
- It is suitable for dust, oil, water mist, strong electromagnetic, high-frequency vibration and other complex heavy industrial environments.
- Support desktop, wall mounted, embedded, cantilever, boom and other installation methods.



10.1"~21.5" optional



Product Model >>

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10.1"	TPC101-W500	TPC101-W510	TPC101-W520	1280*800	16:10	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (10.1-12 inch small back cover)
10.4"	TPC104-W500	TPC104-W510	TPC104-W520	1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-W500	TPC116-W510	TPC116-W520	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12"	TPC120-W500	TPC120-W510	TPC120-W520	1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-W500	TPC150-W510	TPC150-W520	1024*768	4:3	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	 (15-21.5 inch large back cover)
15.6"	TPC156-W500	TPC156-W510	TPC156-W520	1920*1080	16:9	300cd/m ²	800:1	85/85/85/85 (L/R/U/D)	
17"	TPC170-W500	TPC170-W510	TPC170-W520	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-W500	TPC173-W510	TPC173-W520	1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
19"	TPC190-W500	TPC190-W510	TPC190-W520	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-W500	TPC191-W510	TPC191-W520	1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-W500	TPC215-W510	TPC215-W520	1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	

Product Installation >>



Product Specifications >>

Hardware Configuration

CPU	Intel Core I5-6200U	Intel Core I5-7200U	Intel Core I5-8265U	Intel Core I5-10210U
CPU frequency	2.3GHz	2.5GHz	1.6GHz	1.6GHz
Integrated graphics	Intel HD Graphics 520	Intel HD Graphics 620	Intel Ultra HD Graphics 620	Intel UHD 620 Graphics
RAM	4G DDR4 (Optional 8/16/32G)	4G DDR4 (Optional 8/16/32G)	4G DDR4 (Optional 8/16/32G)	8G DDR4 (Optional 16/32/64G)
Storage	128GB SSD(256GB/512GB SSD, 1T/2T HDD optional)			
System	Win7/10/11, Ubuntu/Centos/Redhat/Debian/Linux			
WIFI	2.4GHz / 5GHz dual bands			
Bluetooth	BT4.0(Optional)			

Touch Screen

Capacitive Touch	Touch screen type: 10 point touch projection capacitive touch screen Light transmittance: ≥ 88% Input mode: handwriting or capacitive pen Controller communication: USB
Resistive Touch	Touch screen type: single point resistive touch screen Light transmittance: ≥ 78% Input mode: Fingertip or stylus Controller communication: USB
Non touch	Light transmittance: ≥ 92%

Reliability parameters

working temperature	Operating temperature: - 10 ° C~60 ° C, storage temperature: - 20 ° C~70 ° C
Operating humidity	Humidity: 95% non condensing
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 11ms
Product certification	CCC/CE/FCC/EMC/CB/ROHS

Other parameters

Power input	12V-36V power input
Static power	18W
Fuselage Properties	Body material: aluminum alloy, body color: classic black, technical silver
warranty policy	Three years (one year free warranty)
Installation method	Support embedded, wall mounted, desktop, louver, cantilever, boom and other installation methods

I/O Interface

Power interface1	1*Industrial terminal, Support 12V-36V wide voltage power supply
Power interface2	1*DC2.5, Support 12V-36V wide voltage power supply
USB	2*USB 3.0, 2*USB 2.0
LAN	2*LAN, 10M/100M/1000M adaptive Ethernet
HDMI	1*HDMI, Support HDMI data output, maximum support 4K
SIM	1*SIM, SIM card interface standard interface supports various formats (depending on 3G / 4G module)
VGA	1*VGA
AUDIO	1*Audio Out, Support audio output, Headphone stand: 3.5mm standard interface
POWER	1*Power key
WiFi Antenna	2*WiFi antenna
Grounding column	Support(1*GND)

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- Aluminum alloy one-piece die casting, efficient heat dissipation.
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Product Installation >>



Product Specifications >>

Hardware Configuration

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Integrated graphics	Intel HD Graphics 520	Intel HD Graphics 620	Intel Ultra HD Graphics 620	Intel UHD630 Graphics
RAM	4G DDR4 (Optional 8/16G)	4G DDR4 (Optional 8/16/32G)	4G DDR4 (Optional 8/16/32G)	8G DDR4 (Optional 16/32/64G)
Storage	128GB SSD(256GB/512GB SSD, 1T/2T HDD optional)			
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