

2nd Gen A Embedded X86 All-in-One Panel PC

The whole machine adopts an ultra-thin frame that is more suitable for embedded installation, an all aluminum alloy structure, and a fanless totally enclosed design. It has more than 10.1"~23.8" sizes to choose from. The front panel is made of pure flat wire drawing process, which is dust-proof and waterproof, compact in shape, low in power consumption, and has good scalability, practicability, EMC compatibility and other performances. It is widely used in industrial control, military industry, communication, power, network, intelligent self-service terminal equipment and other automation applications.

Features >>

- The front frame is only 3mm thick, specially designed for embedded installation applications.
- High precision die-casting aluminum molding, pure plane wire drawing process design, dustproof and waterproof.
- Independent research and development of X86 architecture industrial motherboard, with a variety of options.
- Comply with EMC anti electromagnetic interference standard, industrial protection, and adapt to a variety of harsh environments.



10.1"~23.8" 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-W200	TPC101-W210	TPC101-W220	1280*800	16:10	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (10.1-12.1 inch small back cover)
10.4"	TPC104-W200	TPC104-W210	TPC104-W220	1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-W200	TPC116-W210	TPC116-W220	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12.1"	TPC121-W200	TPC121-W210	TPC121-W220	1280*800	16:10	300cd/m ²	350:1	65/65/50/65 (L/R/U/D)	 (12-23.8 inch large back cover)
12"	TPC120-W200	TPC120-W210	TPC120-W220	1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
13.3"	TPC133-W200	TPC133-W210	TPC133-W220	1920*1080	16:9	220cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
15.6"	TPC156-W200	TPC156-W210	TPC156-W220	1920*1080	16:9	300cd/m ²	800:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-W200	TPC150-W210	TPC150-W220	1024*768	4:3	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
17"	TPC170-W200	TPC170-W210	TPC170-W220	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-W200	TPC173-W210	TPC173-W220	1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
18.5"	TPC185-W200	TPC185-W210	TPC185-W220	1920*1080	16:9	400cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
19"	TPC190-W200	TPC190-W210	TPC190-W220	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-W200	TPC191-W210	TPC191-W220	1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-W200	TPC215-W210	TPC215-W220	1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
23.8"	TPC238-W200	TPC238-W210	TPC238-W220	1920*1080	16:9	250cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	

Product Installation >>



Embedded installation Embedded installation Wall mounted installation Desktop installation Louver installation Cantilever installation Boom type installation

Product Specifications >>

Hardware Configuration

CPU	Celeron J4125 quad core frequency 2.0GHz
Integrated Graphics	Intel UHD Graphics 600
RAM	8GB DDR4 2666MHz (Optional 4GB)
Storage	128GB SSD (64GB/256GB/512GB SSD, 1T/2T HDD optional)
System	Win10/11, Ubuntu/Centos/Linux
Video Card	Integrated HD Graphic display core
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
Resistive 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

Industrial terminals	1*12P Phoenix terminal (DC*1+232*1+485*1+GPIO*5), support 12V-36V wide voltage power supply
Power interface	1*DC[5.5*2.5mm], 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 I/O, support audio input and output, headphone holder: 3.5mm standard interface
RS232	1*RS232(Optional RS485,RS422,GPIO)
Power key	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.