

# 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



## Model >>

Product size	Non-touch	Capacitive Touch	Resistive Touch	Resolution	Screen Scale	Brightness	Contrast ratio	Viewing Angle	Back Cover Image
10.1"	TPC101-W200	TPC101-W210	TPC101-W220	1280*800	16:10	300cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	 <p>(10.1-12.1 inch small back cover)</p>
10.4"	TPC104-W200	TPC104-W210	TPC104-W220	1024*768	4:3	400cd/m <sup>2</sup>	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-W200	TPC116-W210	TPC116-W220	1920*1080	16:9	300cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
12.1"	TPC121-W200	TPC121-W210	TPC121-W220	1280*800	16:10	300cd/m <sup>2</sup>	350:1	65/65/65/65 (L/R/U/D)	 <p>(12-23.8 inch large back cover)</p>
12"	TPC120-W200	TPC120-W210	TPC120-W220	1024*768	4:3	500cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
13.3"	TPC133-W200	TPC133-W210	TPC133-W220	1920*1080	16:9	220cd/m <sup>2</sup>	1000:1	85/85/85/85 (L/R/U/D)	
15.6"	TPC156-W200	TPC156-W210	TPC156-W220	1920*1080	16:9	300cd/m <sup>2</sup>	800:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-W200	TPC150-W210	TPC150-W220	1024*768	4:3	300cd/m <sup>2</sup>	1000:1	89/89/89/89 (L/R/U/D)	
17"	TPC170-W200	TPC170-W210	TPC170-W220	1280*1024	5:4	300cd/m <sup>2</sup>	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-W200	TPC173-W210	TPC173-W220	1920*1080	16:9	300cd/m <sup>2</sup>	600:1	80/80/60/80 (L/R/U/D)	
18.5"	TPC185-W200	TPC185-W210	TPC185-W220	1920*1080	16:9	300cd/m <sup>2</sup>	1000:1	89/89/89/89 (L/R/U/D)	
19"	TPC190-W200	TPC190-W210	TPC190-W220	1280*1024	5:4	300cd/m <sup>2</sup>	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-W200	TPC191-W210	TPC191-W220	1440*900	16:10	300cd/m <sup>2</sup>	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-W200	TPC215-W210	TPC215-W220	1920*1080	16:9	300cd/m <sup>2</sup>	1000:1	89/89/89/89 (L/R/U/D)	
23.8"	TPC238-W200	TPC238-W210	TPC238-W220	1920*1080	16:9	250cd/m <sup>2</sup>	1000:1	89/89/89/89 (L/R/U/D)	

## Installation >>



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

## Specification >>

### Configuration

CPU	Intel Celeron J6412, 4-core/4-wire, 2.00 GHz max RPM 2.6GHz
Integrated Graphics	Intel UHD Graphics 16 EUs
Memory/RAM	8GB DDR4 (Supports up to 16GB)
Storage	256GB SSD (64GB/128GB/512GB SSD, 1T/2T HDD Optional)
Operating System	WIN10/11, Ubuntu/Centos/Redhat/Debian
Video Card	Integrated HD Graphic display core
Wi-Fi	Dual Band 2.4GHz+5GHz
Bluetooth	BT4.0 (Optional)

### Touch Parameter

Capacitive Touch	Projection capacitive touch, 10-point multi touch Touch object: hand or capacitive touch pen Light transmission: $\geq 88\%$ Controller: USB ( COM customized)
Resistive Touch	Resistive touch, Single point Touch object: finger or stylus Light transmission: $\geq 78\%$ Controller: USB ( COM customized)
Non touch	Transmittance: $\geq 92\%$

### Reliability Parameter

Operating temperature	-10°C~60°C ( -20°C~-70°C can be customized)
Storage temperature	-20 ° C~70 ° C
Relative humidity	95% non-Condensing

### Other Parameter

Power input	12V-36V power input
Power adapter	24V/2.5A
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

### Interface Parameter

PowerSW	1*PowerSW
Power interface	1*Threaded DC connector (Diameter 5.5*2.5mm)
Phoenix terminal	1*12P Phoenix terminal (Power supply/RS232*/RS485*/GPIO*5)
USB	2*USB 3.0, 2*USB 2.0
Ethernet	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
Speaker	2*(8Ω2W)
Serial port	1*COM (Default RS232, Optional RS485,RS422,GPIO)
Wi-Fi antenna	2*Wi-Fi antenna
Grounding	Support (1*GND)

## I/O Interface >>



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