

# 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 J1900 Quad core 2.00GHz                  |
| Integrated graphics | Intel HD Graphics                                      |
| Memory/RAM          | 4GB DDR3 1333MHz (Optional 8GB)                        |
| Storage             | 64GB SSD (128GB/256GB/512GB SSD, 1T/2T HDD Optional)   |
| Operating System    | WIN7/10, Ubuntu/Centos7.4/7.8/7.9/Redhat7.4/Debian11.6 |
| 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<br>Touch object: hand or capacitive touch pen<br>Light transmission: $\geq 88\%$<br>Controller: USB ( COM customized) |
| Resistive Touch  | Resistive touch, Single point<br>Touch object: finger or stylus<br>Light transmission: $\geq 78\%$<br>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)  |
| USB              | 2*USB 3.0, 2*USB 2.0  |
| Ethernet         | 1*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                        |
| Speaker          | 2*(8Ω2W)  |
| Serial port      | 2*COM (The default is RS232, and the optional RS485)  |
| Wi-Fi antenna    | 2*Wi-Fi antenna   |
| Grounding column | Support (1*GND)   |

## I/O Interface >>



Only the 15 inch J1900 motherboard interface is displayed. Please refer to the actual object for details.