

# TPC120-W5

The whole machine is made of aluminum alloy material, strong structure layout, completely closed without fan design, compact appearance, low power consumption, good scalability, practicability and EMC compatibility performance, designed for a variety of complex environment, widely used in industrial control, military, communication, power and network automation fields.

## Features

- Narrow frame design, independent mold appearance
- Aluminum alloy - body die casting, efficient heat dissipation
- Self-developed X86 architecture industrial motherboard
- Intel Celeron J6412 quad-core 2.0GHz processor
- Comply with EMC anti-electromagnetic interference standard
- Compatible with 99% of industry software, With strong expansibility



## Product Model

Product Size	12"
Non-touch	TPC120-W500
Capacitive touch	TPC120-W510
Resistive touch	TPC120-W520

## Product Interface



## Product Specifications

### Screen Parameters

LCD size	12" TFT LCD
Resolution	1024*768(4:3)
Viewing angle	85/85/85/85 (L/R/U/D)
Color	16.7M
Brightness	500 cd/m <sup>2</sup>
Contrast ratio	1000:1

### Touch Parameters

Touch type	10-point touch projection Capacitive touch screen	Single-point Resistance touch screen	Non-touch
Transmittance	≥88%	≥78%	≥92%
Input mode	Handwriting or Capacitance pen	Fingertip or stylus	/
Controller communication	USB	USB	/

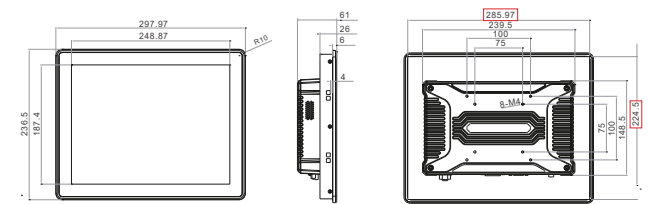
### Hardware Configuration

CPU	Intel Celeron J6412, 4 cores/4 wires, frequency 2.00 GHz (Maximum RF: 2.7GHz)	WiFi	2.4GHz/5GHz, Dual frequency WiFi
Memory	8GB DDR3(Optional: 4GB)	Bluetooth	BT4.0(Optional)
Storage	64GB SSD (Optional: 128GB/256GB/512GB)	Other support	RTC real-time clock and timing switch
Integrated graphics	Intel UHD Graphics 16 EUs		
Operating system	WIN10/11, Ubuntu14.04.6/16.04.7/18.04.5/18.04.6/20.04.1/20.04.3/20.04.4/22.04, Centos7.8/8.4/7.9, Redhat7.4, Debian10.0/11.6		

### Power Parameters

Power input	DC 12V~36V	Static power	18W
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## Product Size



### Physical Characteristics

Overall dimensions	W297.97X H236.5X D61MM
Size of opening	W287.97X H226.5MM

### Interface Parameters

Power interface1	1*12P Phoenix terminal (Power supply/RS232*1/RS485*1/CAN*1/GPIO*5)
Power interface2	1*DC 【5.5*2.5mm】 Supporting wide voltage 12V-36V power supply
USB	2*USB 2.0, 2*USB 3.0
Network interface	2*LAN, 10M/100M/1000M adaptive Ethernet
HDMI	1*HDMI, Supporting HDMI data output, Up to 4K
SIM	1*SIM, Supporting various formats (Depending on 3G/4G module)
VGA	1*VGA
Audio interface	1*Audio I/O, Support audio input and output
COM	1*RS232
WiFi antenna	2*WiFi antenna
POWER	1*POWER
Grounding post	1*Grounding post (GND)

### Product Reliability Parameters

Working temperature	-10°C~60°C
Storage temperature	-20°C~70°C
Relative 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, Lasting for 11ms
Product certification	CCC/CE/FCC/EMC/CB/ROHS
Waterproof grade	The front panel reaches IP65 protection level