

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

With 10.1 " - 21.5 " dimensions to choose from, the body is made of aluminum alloy, with a strong structural layout, a totally enclosed fan free design, and a compact overall shape, which is specially designed for a variety of complex environments and can ensure long-term stable operation in harsh environments; The whole machine has low power consumption, good scalability, practicability, EMC compatibility and other performance, and is widely used in industrial control, military, communication, power and network automation fields.

Features >>

- Narrow frame design, independent mold opening.
- Aluminum alloy one-piece die casting, efficient heat dissipation.
- Self developed X86 architecture industrial motherboard, Intel Celeron J1900 quad core processor.
- Process structure design of anti vibration radiation layout.
- 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.



ISO FC CE CCC RoHS 410

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"	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 Celeron J1900 quad core 1.99GHz
Integrated graphics	Intel HD Graphics
RAM	4G DDR3 1333MHz (Optional 8G)
Storage	64GB SSD (128GB/256GB/512GB SSD,1T/2T HDD optional)
System	Win7/10,Ubuntu/Centos/Redhat/Debian/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: ≥ 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	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
POWER	1*POWER
Grounding column	Support(1*GND)

Interface Distribution >>



Only the 15 inch J1900 motherboard 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 X86 architecture industrial motherboard, Intel Celeron J4125 quad core processor.
- Process structure design of anti vibration radiation layout.
- 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



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"	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	Celeron J4125 quad core frequency 2.0GHz
Integrated Graphics	Intel UHD Graphics 600
RAM	4G DDR4 2666MHz (Optional 8G)
Storage	64GB SSD (128GB/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: ≥ 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
Resistive 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
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Product certification	CCC/CE/FCC/EMC/CB/ROHS

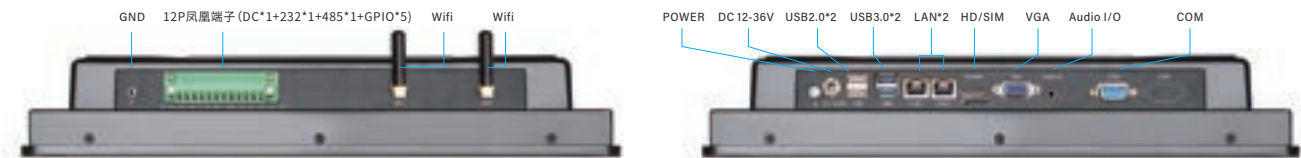
Other parameters

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.

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10.1"~21.5" optional

Product Model >>

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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)
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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)	
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Product Installation >>



Product Specifications >>

Hardware Configuration	
CPU	Celeron J4125 quad core frequency 2.0GHz
Integrated Graphics	Intel UHD Graphics 600
RAM	4G DDR4 2666MHz (Optional 8G)
Storage	64GB SSD (128GB/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)

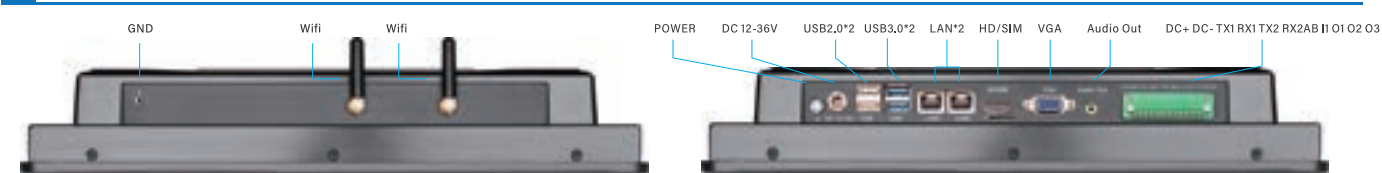
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Reliability parameters	
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Operating humidity	Humidity: 95% non condensing
Vibration protection	IEC 60068-2-64, random, 5 ~ 500 Hz, 1 hr/axis
Impact protection	IEC 60068-2-27, half sine wave, duration 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)
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Product Installation >>



Product Specifications >>

Hardware Configuration

CPU	Intel Celeron J6412, 4-core/4-wire, 2.00 GHz max RPM 2.6GHZ
Integrated Graphics	Intel UHD Graphics 16 EUs
RAM	8GB DDR4 (supports up to 16GB)
Storage	256GB SSD (64GB/128GB/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: ≥ 88% Input mode: handwriting or capacitive pen Controller communication: USB
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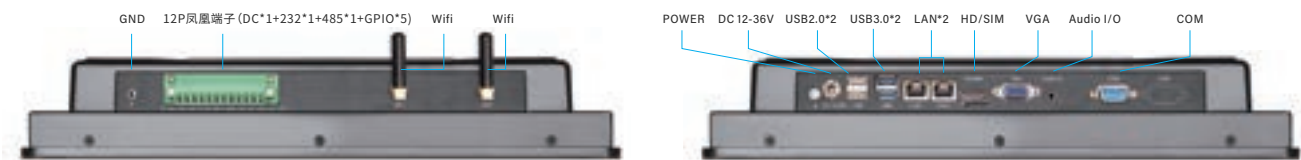
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Power key	1*Power key
WiFi antenna	2*WiFi antenna
Grounding column	Support (1*GND)

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