

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

The industrial motherboard is independently researched and developed, and a variety of configuration schemes meet different application needs. The 3MM ultra-thin front frame seamlessly fits all kinds of cabinet equipment. It has an all aluminum alloy structure, fan free and totally enclosed design, and multiple sizes of 10.1"~23.8" are available for selection. The front panel is made of pure flat wire drawing process, which is dustproof and waterproof. The whole machine has low power consumption, good scalability, practicability, EMC compatibility and other performances.



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 ARM architecture industrial motherboard, with a variety of options.
- Conform to EMC anti electromagnetic interference standard.
- Industrial protection, applicable to various harsh environments.
- SDK package is provided to support secondary development and upgrade customization.



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-A200	TPC101-A210	TPC101-A220	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-A200	TPC104-A210	TPC104-A220	1024*768	4:3	400cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
11.6"	TPC116-A200	TPC116-A210	TPC116-A220	1920*1080	16:9	300cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12"	TPC120-A200	TPC120-A210	TPC120-A220	1024*768	4:3	500cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	
12.1"	TPC121-A200	TPC121-A210	TPC121-A220	1280*800	16:10	300cd/m ²	350:1	65/65/50/65 (L/R/U/D)	
13.3"	TPC133-A200	TPC133-A210	TPC133-A220	1920*1080	16:9	220cd/m ²	1000:1	85/85/85/85 (L/R/U/D)	 (13.3-23.8 inch large back cover)
15.6"	TPC156-A200	TPC156-A210	TPC156-A220	1920*1080	16:9	300cd/m ²	800:1	85/85/85/85 (L/R/U/D)	
15"	TPC150-A200	TPC150-A210	TPC150-A220	1024*768	4:3	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
17"	TPC170-A200	TPC170-A210	TPC170-A220	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/70 (L/R/U/D)	
17.3"	TPC173-A200	TPC173-A210	TPC173-A220	1920*1080	16:9	300cd/m ²	600:1	80/80/60/80 (L/R/U/D)	
18.5"	TPC185-A200	TPC185-A210	TPC185-A220	1920*1080	16:9	400cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
19"	TPC190-A200	TPC190-A210	TPC190-A220	1280*1024	5:4	300cd/m ²	1000:1	85/85/80/80 (L/R/U/D)	
19.1"	TPC191-A200	TPC191-A210	TPC191-A220	1440*900	16:10	300cd/m ²	1000:1	80/80/80/80 (L/R/U/D)	
21.5"	TPC215-A200	TPC215-A210	TPC215-A220	1920*1080	16:9	300cd/m ²	1000:1	89/89/89/89 (L/R/U/D)	
23.8"	TPC238-A200	TPC238-A210	TPC238-A220	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	A64 Cortex-A53 quad-core, 1.5GHz;
GPU	Mali-400MP2
RAM	2G DDR3 (Optional 4G/8G)
Storage	8G eMMC (Optional 16G/32G/64G)
System	Android6.0
Ethernet	10M/100M/1000M
WIFI	2.4GHz / 5GHz dual bands
Bluetooth	BT5.0

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
Non 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 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 interface	1*DC 2.1, supporting 12V power input
USB	1*USB HOST, 1*USB OTG
TF	1*TF
SIM	1*SIM, SIM card: standard interface, supporting various formats (depending on 3G/4G module)
HDMI	1*HDMI, Support HDMI data output, maximum support 4K
OTG	1*OTG
LAN	1*LAN, 10M/100M/1000M adaptive Ethernet
AUDIO	1*Audio I/O, Support audio input and output, Headphone: 3.5mm standard interface
UBOOT	Support(1*UBOOT)
COM	2*COM(The default is RS232, and the optional RS485/RS422)
Wifi antenna	1*Wifi antenna
Grounding column	Support(1*GND)

Interface Distribution >>



Only the 15 inch A64 motherboard interface is displayed. Please refer to the actual object for details.