TAICENN

TPC-PC104C

10.4'' Intel Baytrial J1900/J1800 P-CAP touch Panel mounting Panel PC

Specification

Version 2.0

Key features:

➢ 10.4'' Projective capacitive multi-point touch;
➢ Intel Baytrail J1900/J1800 processor;
➢ Impact, fan-less design, Finned heat sink;
➢ 2 * Intel GLAN, and 1* 2.5'' SATA + 1* MSATA;
➢ Wide-temp range, support -20℃~+70 ℃;
➢ **Optional** precision high-temp. Five wires Resistive touch;
➢ **Optional** No-touch function, with Glass.

Product Image

Brief Introduction

TAICENN TPC-PC104C series is a low power-consumption, Fan-less designed, enhanced stability and reliability industrial 10.4-inch Touch Panel PC product. It adapts Intel Baytrail J1900/J1800 processor. TPC-PC104C series storage can support 2.5" SATA and mSATA interface, HDD or SSD. The design uses a multi-point (10- points) projective capacitive touch screen (Optional with high-temp. five-wires resistive touch, or No touch), and it can fulfill front panel NEMA/IP65 dust-proof and water-proof standards.

The TPC-PC104C uses full-sealed box construction, and it can prevent dust from entering the device system.

The **TAICENN** TPC-PC104C is compatible with Win7, Win8, Win10, Linux, Unix OS, and it also has a good compatibility with customized applications and software programs.
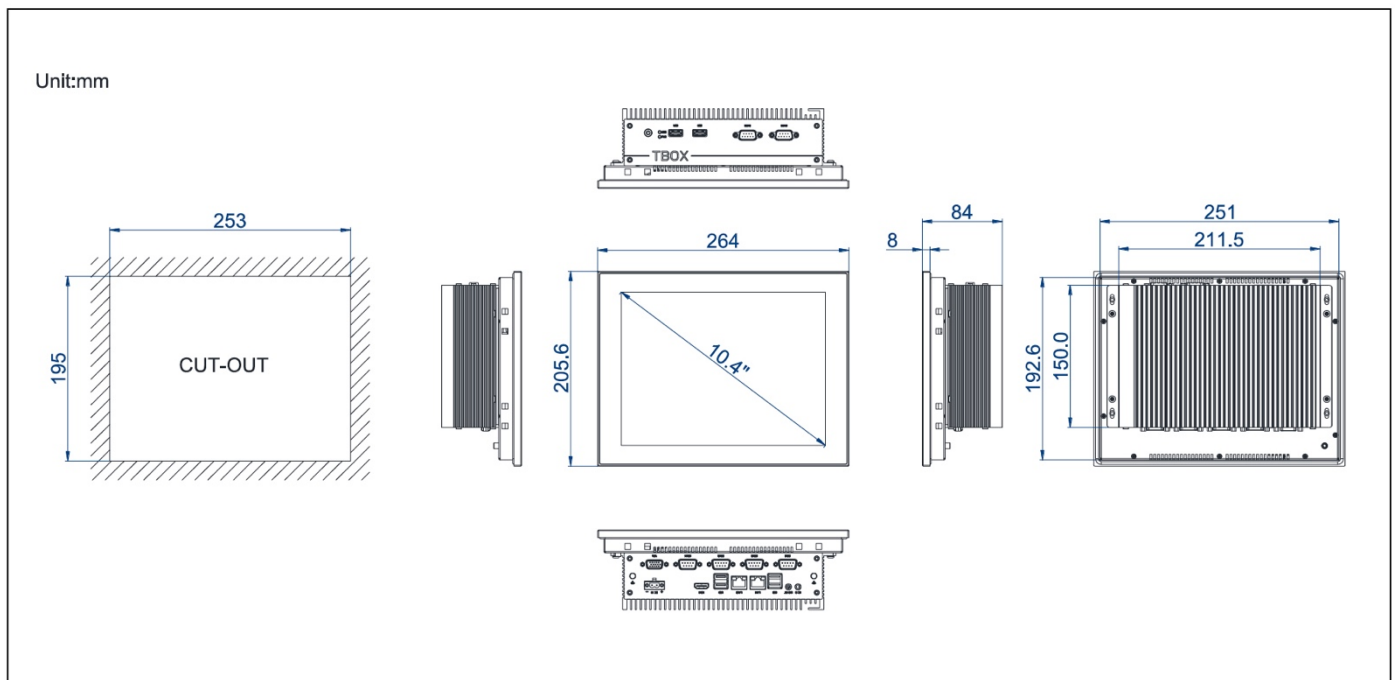
Technical Data

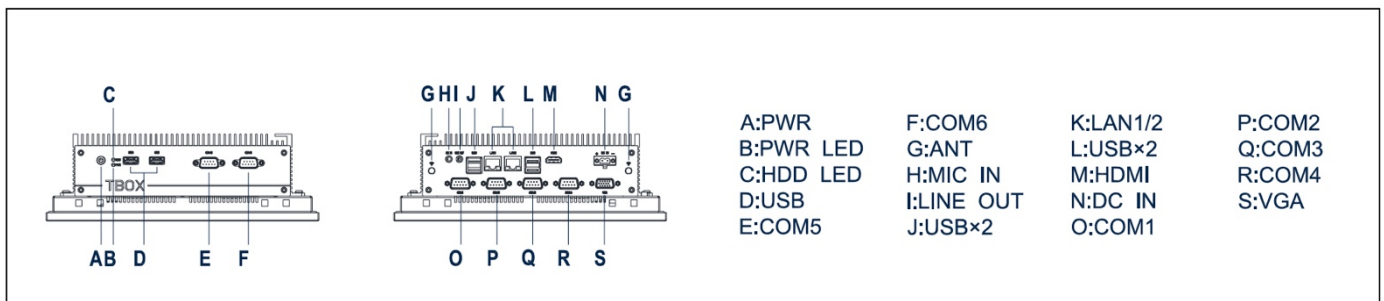| Model Item	TPC-PC104C1	TPC-PC104C2
System		
BIOS	SPI AMI EFI BIOS	
CPU	Intel Baytrail J1900	Intel Baytrail J1800
CPU Ghz	Quad-core 2.0Ghz	Dual-core 2.4Ghz
Memory	SO-DIMM, DDR3L, Max. up to 8GB	
Graphic card	Intel HD Graphic Gen7	
Network	2*Intel I211AT, expansion with Wifi/3G/4G	
Storage	1x 2.5'' SATA + 1x mSATA	
Audio	Realtek ACL 282 controller	
Watch dog	Programmable 1~255 seconds	
Operating System	Win7, Win8, Win 10, Linux, Unix	
I/O		
Network	2x RJ45, 10/100/1000 Mbps	
USB	4x USB 2.0 + 1x USB 3.0	
COM	6x RS232 (Surge and electrostatic protection) COM4/5 support RS232/RS485 COM6 support RS232/TTL	
Audio	Line-In, Line-Out	
Display	1*VGA, 1*HDMI	
Power Input	1*2 pins, phoenix terminal	
LCD		
Size/Type	10.4'' TFT LCD	
Resolution	1024 * 768 (XGA)	
Brightness	350 (cd/m^2)	

Brightness MTBF	WLED, 30 000 hours
Display area	211.2 x 158.4
Viewing angle	75/75/75/75 (Typ.)

TOUCH

Type	Projective capacitive (P-cap.)
Interface	USB
Transparency	>90±3%
Touch points	10 Points
Durability	>100 000 000 times
Surface hardness	Mohs 6H
Operating force	≤10g
Special treatment	Anti-finger treatment (AF)

Optional Resistive touch

Type	High-temp. precision 5 wires Resistive touch
Interface	USB (Optional RS232)
Transmittance	>80±3%
Resolution	4096 x 4096
Click life	250g/ 35 000 000 times
Response time	<15ms
Operating force	≤50g
Surface treatment	PET film laminated
Surface hardness	>Mohs 3H

Structure

Front Panel	Magnesium-aluminum alloy, Anodizing treatment
Back Panel	SGCC Galvanized plate sheet, Sand-blasting
Cooling System	Finned aluminum heatsinks, fan-less design
IP rating	IP65 front panel
Mounting	Panel mounting, support VESA 75/100
Hole dimension	253 x 195 (mm)
Product Dimension	264 x 205.6 x 84 (mm)
Net weight	4KG

Power and Environmental

Voltage Input	DC 9~24 V (Over-current, Over-voltage and reverse polarity protection)
Power Consumption	About 30 W
Working temperature	-20℃~+70 ℃

Storage temperature	-30℃~+80 ℃
Relative humidity	10~95%@10℃（No condensation）
Vibration	50~500Hz,1.5G,0.15mm peak to peak
Shock	10G/peak（11ms sec）

Dimension

I/O definition

A:PWR
B:PWR LED
C:HDD LED
D:USB
E:COM5

F:COM6
G:ANT
H:MIC IN
I:LINE OUT
J:USB×2

K:LAN1/2
L:USB×2
M:HDMI
N:DC IN
O:COM1

P:COM2
Q:COM3
R:COM4
S:VGA

Ordering Information

TPC-PC104C1	10.4'', 1024*768, Intel Baytrail J1900, 1*USB3.0+5*USB2.0, 6*RS232, **PCAP** touch, 2*GLAN, DC 12V Adapter
TPC-PC104C2	10.4'', 1024*768, Intel Baytrail J1800, 1*USB3.0+5*USB2.0, 6*RS232, **PCAP** touch, 2*GLAN, DC 12V Adapter
TPC-PR104C1	10.4'', 1024*768, Intel Baytrail J1900, 1*USB3.0+5*USB2.0, 6*RS232, **Resistive** touch, 2*GLAN, DC 12V Adapter
TPC-PR104C2	10.4'', 1024*768, Intel Baytrail J1800, 1*USB3.0+5*USB2.0, 6*RS232, **Resistiv**e touch, 2*GLAN, DC 12V Adapter
TPC-PG104C1	10.4'', 1024*768, Intel Baytrail J1900, 1*USB3.0+5*USB2.0, 6*RS232, **No touch** (glass), 2*GLAN, DC 12V Adapter
TPC-PG104C2	10.4'', 1024*768, Intel Baytrail J1800, 1*USB3.0+5*USB2.0, 6*RS232, **No touch** (glass), 2*GLAN, DC 12V Adapter
Memory	SO-DDR3L 2G/4G/8G
Storage	SSD: 16GB/32GB/64GB/128GB/256GB/512GB/1TB
	HDD: 500GB/1TB
Wireless module	WIFI: 802.11 b/g/n Mini PCIe
	3G/4G/LTE: All network module
Bracket	TPC-PC Series VESA bracket

TAICENN Technology

*TAICENN, is a leading global **solution provider** of Embedded Box IPC, Touch panel IPC and industrial monitor, which are designed specifically for systems and applications that require excellent performance, high-level reliability and stability, long supply period and supports.*