

TPC-PRS121T

12.1" XGA Tiger Lake UP3 Industrial Panel PC

Version: 1.0



Features

- 12.1" TFT LCD display, LED Backlit, XGA 1024 *768;
- Intel 11th Gen. Tiger Lake UP3, Celeron Core i3/i5/i7 processor;
- Single DDR4 memory, up to 32GB, 1* M.2 2280 (NGFF) Key-M storage;
- Precision High temp. 5-wires resistive touch, EETI controller;
- Aluminum-magnesium alloy, anodized treatment, Modular designed;
- 2 GLAN, Dual wireless expansion, 4G/5G, WIFI/BT support;
- DC 12V, Optional wide voltage DC 9~36V input;
- 8*USB (6 USB3.0), 6*COM (Optional GPIO), 2*HDMI, Audio;
- Fan-less & Rich IO design, Panel mount, Front IP65 protection.

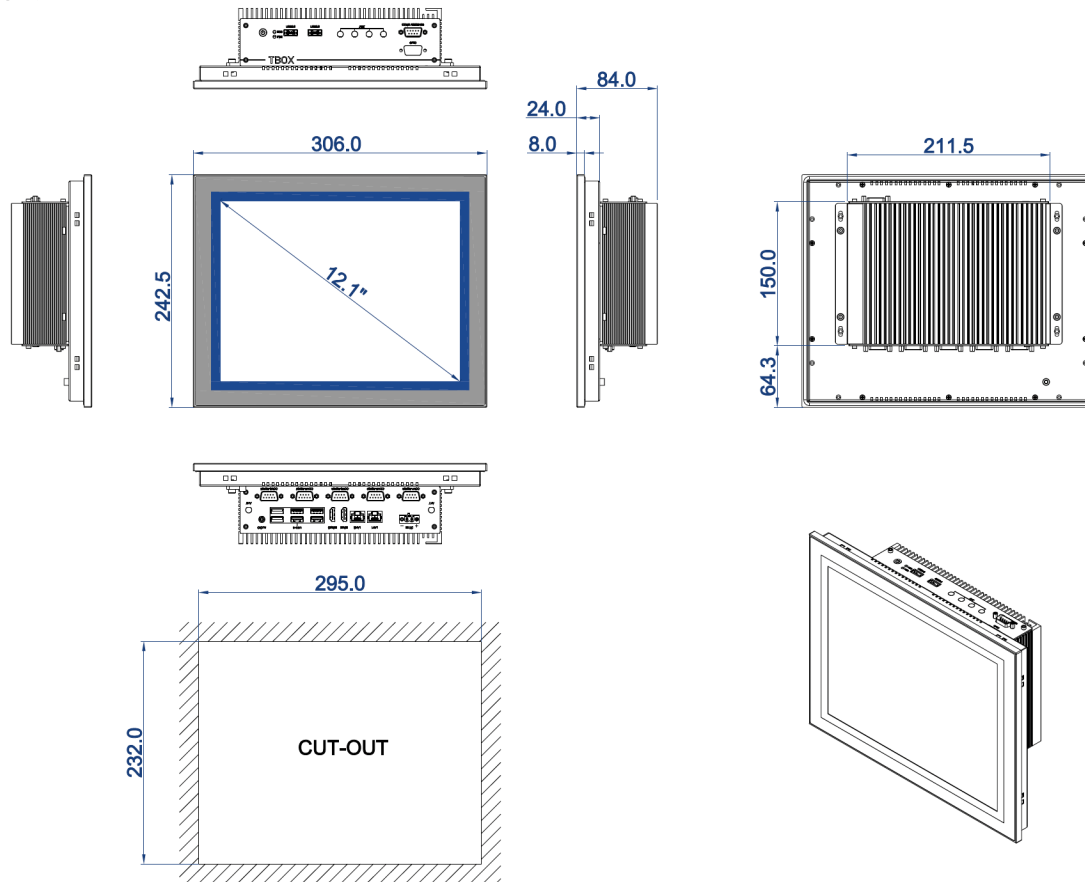
Specification

Hardware & System	BIOS	SPI AMI EEI BIOS
	CPU	Intel 11 th Gen. Tiger Lake UP3 Celeron 6305E, Core i3-1115G4, Core i5-1135G7, Core i7-1165G7
	TDP	Default 15W (BIOS Fixed)
	Memory	SO-DIMM, support DDR4 2666/2933/3200 MT/s, max. up to 32GB
	Storage	1* M.2 2280 (PCIe NVMe) SSD, optional support 1* 2.5" SATA
	Graphic	Intel UHD/Iris Xe Graphics
	Network	1* Intel I219, 1* Intel I225 (Optional 3G/4G, 5G, Wi-Fi/BT)
	TPM	Intel PTT TPM2.0
	Expansion	1* M.2 (NGFF) Key-B 3052 slot. 1* M.2 (NGFF) Key-E 2230 slot
	Watch dog	0~256 seconds programmable
OS	Win10/Win11, Linux, Ubuntu	
IO interface	COM	COM1/2: RS232/RS485; COM2/3/4/5: RS232; COM6: RS485 (Optional RS232)
	Ethernet	2x RJ45, 10/100/1000 Mbps
	Audio	1* Mic-in/Line-out (2 in 1, 3.5mm Jack)
	USB	6x USB3.0, 2x USB2.0
	Display	2x HDMI (Max. support 4096 * 2160 @30Hz)
	Power	1x 2 pins, phenix terminal
LCD Display	Size/Type	12.1" TFT LCD
	Resolution	1024 * 768 (XGA)
	Brightness	350 nits
	Backlit & Lifetime	LED backlit & 30 000hours
	Display area	245.76 * 184.32
	View angle	80/80/80/80
Touchscreen	Type	High temp. 5-wires Resistive Touchscreen
	Response time	<5ms
	Click life	250g /35 million times
	Touch Controller	EETI
	Special treatment	PET film laminated, flat design
Structure	Structure and surface	Magnesium-Aluminum alloy, sand blasting, anodized treatment
	Mount method	Panel mount (Optional support VESA 75/100 mount)
	Cooling system	Large area finned heat sink
	Overall dimension	306 * 242.5 * 84.0 (mm)
	Cut-out dimension	295 * 232 (mm)
	Net weight	4.2 KG
	IP protection	Front Panel IP65
Power & Environmental	Operating temp.	-20 ~ +70°C
	Storage temp.	-30 ~ +80°C
	Relative Humidity	10 ~ 95% @ 10C (non-condensation)
	Vibration	50 ~ 500 Hz, 1.5G, 0.15mm peak to peak
	Shock	10G/Peak (11 ms)
	Power input	DC 12V (Optional DC 9~36V)
	Power consumption	Around 35W
	EMC	CE/FCC Class A

Last update: 23rd-April-2023

DIMENSIONAL DRAWING:TPC-PRS121E/T

Dimension



DIMENSIONS IN MILLIMETERS

TAICEM
DATE:2022.07.28
REV:A Unit:mm

Ordering info.

Part no.	Description
TPC-PRS121T0	12.1", 1024 * 768, Celeron 6305E, Dual Core 1.80Ghz , Resistive touch, 2*GLAN, 6*USB3.0, 2*USB2.0, 6*COM, Audio, 2*HDMI, DC 12V, PSU
TPC-PRS121T1	12.1", 1024 * 768, Core i3-1115G4, Dual Core 4.10Ghz , Resistive touch, 2*GLAN, 6*USB3.0, 2*USB2.0, 6*COM, Audio, 2*HDMI, DC 12V, PSU
TPC-PRS121T2	12.1", 1024 * 768, Core i5-1135G7, Quad Core 4.20Ghz , Resistive touch, 2*GLAN, 6*USB3.0, 2*USB2.0, 6*COM, Audio, 2*HDMI, DC 12V, PSU
TPC-PRS121T3	12.1", 1024 * 768, Core i7-1165G7, Quad Core 4.40Ghz , Resistive touch, 2*GLAN, 6*USB3.0, 2*USB2.0, 6*COM, Audio, 2*HDMI, DC 12V, PSU
TPC-PRS121TxW	12.1", 1024 * 768, Celeron, Core i3/i5/i7 , Pcap. touch, 2*GLAN, 6*USB3.0, 2*USB2.0, 6*COM, Audio, 2*HDMI, DC 9~36V, No PSU by default
Memory	SO-DIMM, DDR4,4GB/8GB/16GB/32GB Memory
Storage	M.2 SSD: 128GB/256GB/512GB 2.5" SATA SSD: <u>128GB/256GB/512GB</u> 2.5" HDD: 2TB/4TB
Wireless modules	Wi-Fi module, with Antenna (M.2 interface) Wi-Fi with BT integrated module, with Antenna (M.2 interface) All network 4G/LTE module, With Antenna (M.2 interface) 5G network module, with antenna (M.2 interface)
DC module	DC to DC, wide voltage DC 9~36V
Bracket	Additional VESA bracket for VESA mounting
SIM Card module	SIM Card slot for 3G/4G/5G Wireless function

Packing List

■ 1x Standard Product
■ 1x PSU (Power Supply)
■ 1x Power cable & Plug
■ 8x Panel mount metal clips

The information in this specification is subject to change without notice.