TEGUAR

TP-5045-12

12" Fanless Industrial Computer



Key Highlights

- 12.1" Full Flat Panel Touchscreen
- Intel 6th Gen. Core i3/i5 CPU
- DDR4 2133MHz Memory, up to 16GB
- Fanless Aluminum Housing with IP66 Protected Front
- Optional PoE & Sunlight Readable LCD
- Wide Range 9-36V DC Power Input

VIEW ONLINE

The TP-5045-12 fanless panel PC offers superior processing power with the latest Intel 6th generation core i3/i5 CPUs with long life cycle support. The unique compact thermal design includes a rugged die cast aluminum enclosure for fanless operation and durability in high shock and vibration settings. With up to 16GB of DDR4 memory, the TP-5045-12 fanless panel PC is a great solution for most Windows or Linux based applications. An optional PoE (Power over Ethernet) GbE LAN port can be added to simplify cabling. Also, a high-brightness touchscreen option can be chosen for environments with low screen visibility. The TP-5045-12 is great solution for applications such as a data hub for your IoT / IIoT sensors and to run your ERP (Enterprise Resource Planning) software.

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Technical Specifications

Primary Components

Processor Family	Intel Core I series 6th Generation Skylake
Processor Model	Core i3-6100U
Processor Speed	2.3 GHz
Memory Type	1x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB
Storage Type	1x 2.5" SATA Drive Bay for SSD/HDD
Storage Support	32GB-1TB

Power

Input Voltage Range	9-32V DC
Standard Power Adapter	Optional 12V AC/DC Adapter

Operating Systems

Windows	Windows 10 IoT, Windows 10 Pro, Windows 7 Pro

Compatibility

Security Hardware	TPM 2.0

Expansion Slots

SD card	1x Full Size SD Slot

Enclosure

Material	Aluminum
IP Rating	IP66 Front Bezel
Mounting Options	Panel Mount, VESA Mount

Certification

Certifications	CE, FCC Class A

Warranty

Warranty	1 Year

Specifications subject to change.

Display

Screen Size	12.1"
Screen Resolution	1024 x 768 (XGA)
Screen Ratio	4:3
Brightness	450 nits, Optional 1000 nit High Brightness

Touch Screen

Touch Screen	Projected Capacitive, Resistive

External I/O Ports

USB	2x USB 3.0
Serial / Com	2x COM
Serial Protocol Detail	1x RS-232/422/485 DB-9, Default RS-232(COM 1), 1x RS-232 DB-9(COM2)
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x HDMI
Other Ports	1x 2-Pin DC Power Switch Connector
Power Input Port	3-Pin DC-In (Phoenix Type), Optional POE++, 45W with 2x USB 2.0

Thermal & Environmental

Operating Temperature	0°C - 50°C (32°F – 122°F)
Storage Temperature	-20°C - 60°C (-4°F – 140°F)
Cooling Solution	Passive – Fanless with Heatsink
Humidity Range	10% – 90% Non-condensing

Weight / Dimensions

Weight	2.8 kg (6.2 lbs)
Dimensions	319 x 52 x 245 mm (12.6 x 2.0 x 9.6 in)

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I/O Diagram Images

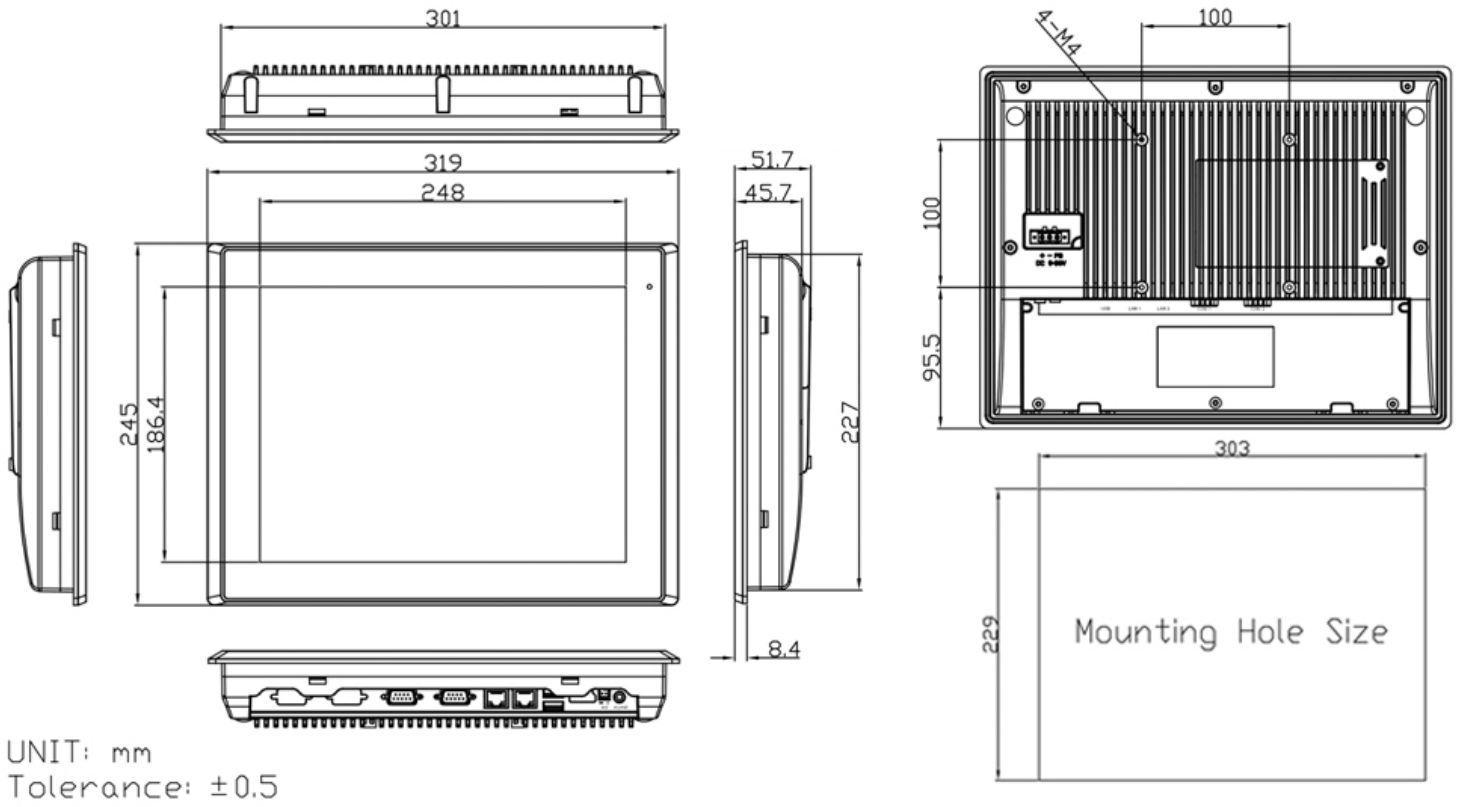


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Tech Diagram Images



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