TEGUAR

TP-5645-12

12.1" Panel Mount Computer



Key Highlights

- 12.1" P-Cap or Resistive Touchscreen
- Fanless Cooling System
- Easily accessible M.2 storage, up to 1TB
- Intel 8th Gen. Core i3/i5 CPU
- Wide Range 9~36VDC Power Input
- IP66 Protected Front with Aluminum Housing

VIEW ONLINE

The TP-5645-12 Panel Mount Computer comes equipped with the advanced processing power from the latest Intel 8th generation Core i3 or i5 CPU, depending on your preferences. With up to 16GB of DDR4 memory, the TP-5645-12 Panel Mount Computer is a great solution for most Windows or Linux based applications. Easily accessible M.2 storage can be configured as high as 512GB. This 12" panel PC has a rugged build with a die cast aluminum enclosure for fanless operation and durability in high shock and vibration settings. The front bezel is IP66 rated for protection from water and dust and uses a full flat design to prevent build-up of particulates on the front surface. A high-brightness touchscreen option can be chosen for environments with low screen visibility. The TP-5645-12 can be configured for 802.3bt Type 3 PoE upon request (requires customer's PSE to be capable of sending at least 45W per device)

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Technical Specifications

Primary Components

Processor Family	Intel Celeron or Core i 8th Generation Whiskey Lake
Processor Model	Core i3 8145UE, Core i5-8365UE
Processor Speed	2.2 GHz
Memory Type	1x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB
Storage Type	1x M.2 M Key, PCIe or SATA, 2242 NVME support
Storage Support	M.2: 128GB-1TB

Power

Input Voltage Range	9-36V DC
Max Power Consumption	56W
Standard Power Adapter	Optional 12V 5A AC/DC Adapter

Battery

Battery Type	Optional Internal Battery
Battery Operating Time	20min

Operating Systems

Windows	Windows 10 IoT, Windows 11 IoT, Windows 11 Pro
Linux	Linux Ubuntu 20.04 or above (Contact your sales rep for more information), Yocto Linux

Expansion Slots

Internal M.2	1x M.2 for NVME SSD Support

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% – 95% Non-condensing

Peripherals & Wireless Connectivity

Sim Card	1x Nano SIM Card Slot

Certification

Certifications	CE, FCC Class A, UL 62368

Specifications subject to change.

Display

Screen Size	12.1"
Screen Resolution	1024 x 768 (XGA)
Screen Ratio	4:3
Brightness	500 nits, Optional 1000 nit High Brightness

Touch Screen

Touch Screen	Projected Capacitive, Resistive

External I/O Ports

USB	4x USB 3.0
Serial / Com	1x COM
Serial Protocol Detail	Included Y-Cable provides two DB-9 Com ports: 1x 5-pin RS-232 (COM1) and 1x Configurable 3-Pin RS-232/422/485 (COM2)
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x DisplayPort
Other Ports	1x 2-Pin DC Power Switch Connector
Audio Ports	1x 3.5mm Audio Line-Out
Power Input Port	2-Pin Power Switch, 3-Pin DC-In (Phoenix Type), Optional POE++, 45W with 2x USB 2.0

Compatibility

Security Hardware	TPM 2.0

Multimedia

Speakers	Optional Speaker

Enclosure

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

Weight / Dimensions

Weight	2.7 kg (6.0 lbs)
Dimensions	319 x 245 x 51.7 mm (12.6 x 9.6 x 2.0 in)

Warranty

Warranty	1 Year

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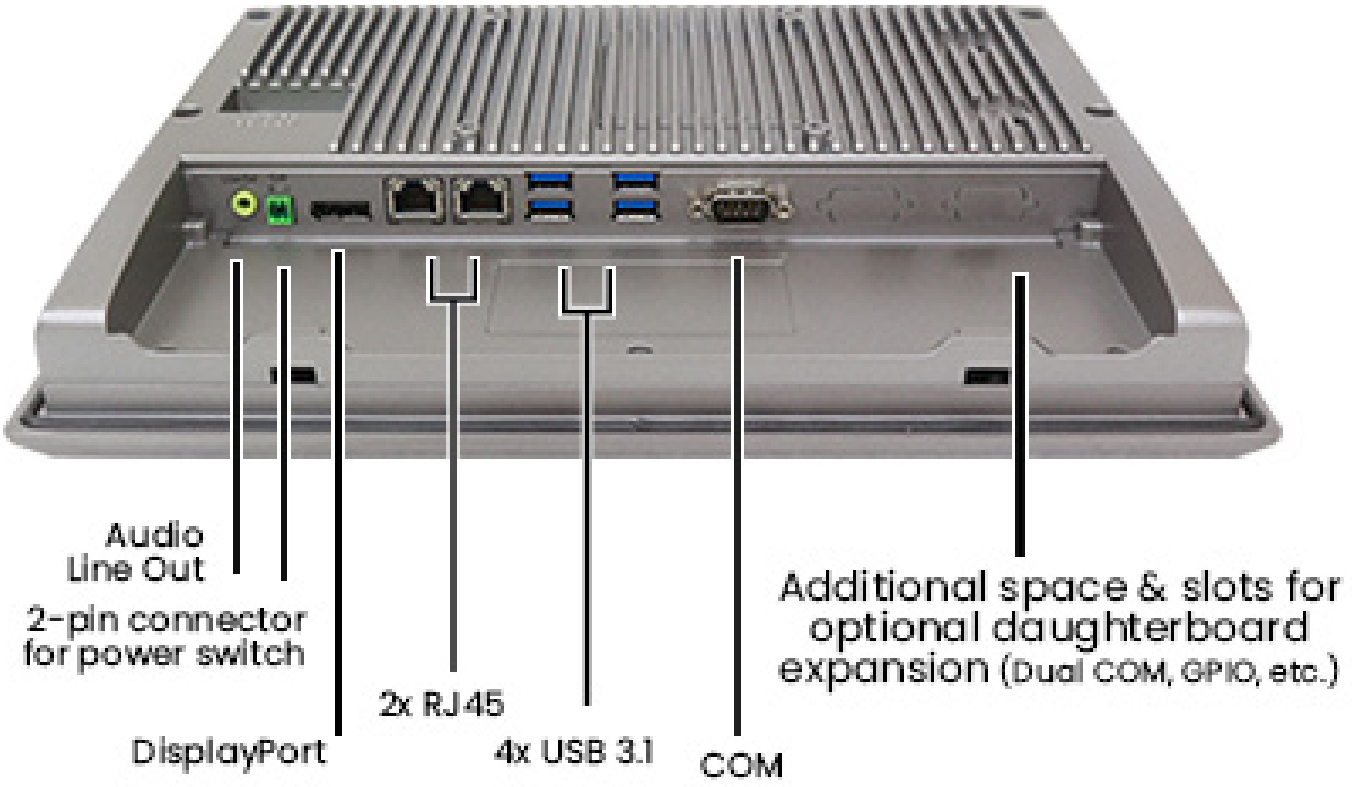
I/O Diagram Images



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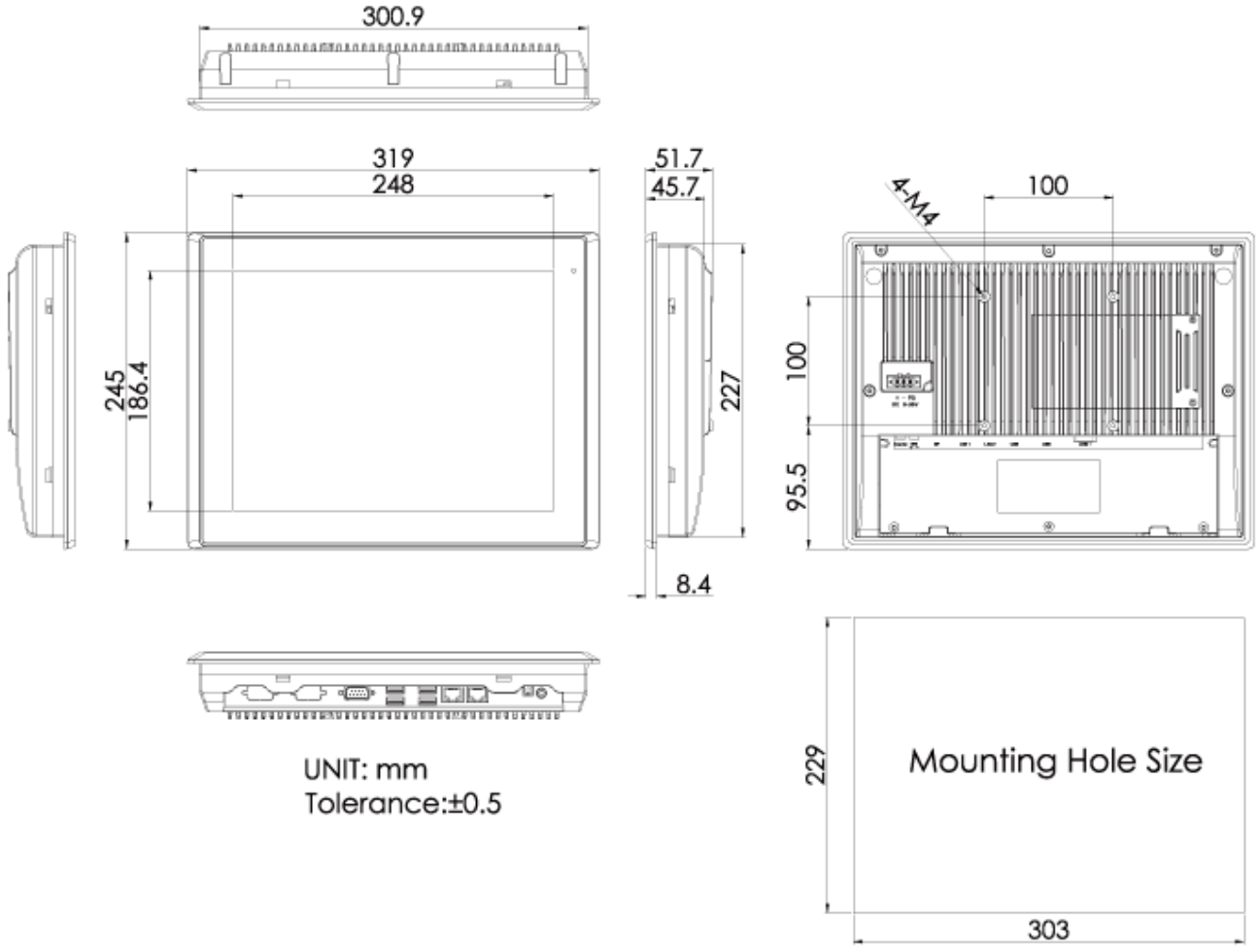
Tech Diagram Images



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