TEGUAR

TP-7045-12

12" Industrial Panel PC

Key Highlights

- 12th Generation Alder Lake CPU
- Windows 11
- Fanless with wide operating temperature range
- Multitude of screen sizes (compare to TP-5645)
- Two slots of DDR4 RAM

VIEW ONLINE

Meet Cornerstone, the TP-7045-12 12" Industrial Panel PC, designed to enhance efficiency and withstand demanding environments. This versatile all-in-one offers the option of a projected capacitive or resistive touch screen, so it can cater to diverse user needs. Powered by a robust Alder Lake Intel® processor and running Windows 11, Cornerstone delivers seamless performance in a fanless unit. The IP66-rated front bezel ensures protection against dust and liquid damage, while the wide operating temperature range guarantees reliability in a variety of conditions. Enjoy dual DDR4 RAM slots for optimal speed. Lay the groundwork for your industrial application with Cornerstone.

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Technical Specifications

Primary Components

Processor Family	Intel Core I series 12th Generation Alder Lake
Processor Model	Core i3-1215U
Processor Speed	2x Performance Cores @ 4.4 GHz, 4x Efficient Cores @ 3.3 GHz, Up to 4.4 GHz
Memory Type	2x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB, 64GB
Storage Type	1x M.2 2280 NVME SSD slot
Storage Support	M.2: 256GB-1TB

Power

Input Voltage Range	9-36V DC

Operating Systems

Windows	Windows 10 IoT, Windows 10 Pro, Windows 11 IoT, Windows 11 Pro

Compatibility

Security Hardware	TPM 2.0

Thermal & Environmental

Operating Temperature	-20°C - 60°C (-4°F – 140°F)
Storage Temperature	-30°C - 70°C (-22°F – 158°F)
Cooling Solution	Passive – Fanless with Heatsink
Humidity Range	10% – 95% Non-condensing

Peripherals & Wireless Connectivity

WiFi	Optional 802.11 a/b/g/n/ac/ax Wi-Fi 6
Bluetooth	Optional Bluetooth 5.3

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

Display

Screen Size	12.1"
Screen Ratio	4:3
Brightness	500 nits, Optional 1000 nit High Brightness

Touch Screen

Touch Screen	Projected Capacitive (Multi-touch), Resistive

External I/O Ports

USB	2x USB 2.0, 2x USB 3.0
Serial / Com	3x COM
Serial Protocol Detail	COM1 & COM2 RS-232/422/485 (BIOS select, RS-232 default), COM3 RS-232
Ethernet / LAN	2x RJ45 GbE LAN
Power Input Port	3-Pin DC-In (Phoenix Type)

Expansion Slots

Internal M.2	1x M.2 2230 Key E (for WiFi expansion option)

Enclosure

Material	Aluminum front bezel, Aluminum Heatsink and SECC Steel Chassis
IP Rating	IP66 Front Bezel
Color	Gray
Led Indicator Light	Power
Mounting Options	Panel Mount, VESA 100 Mount

Weight / Dimensions

Weight	3.5 kg (7.7 lbs)
Dimensions	314 x 77 x 244.9 mm (12.4 x 3.0 x 9.6 in)

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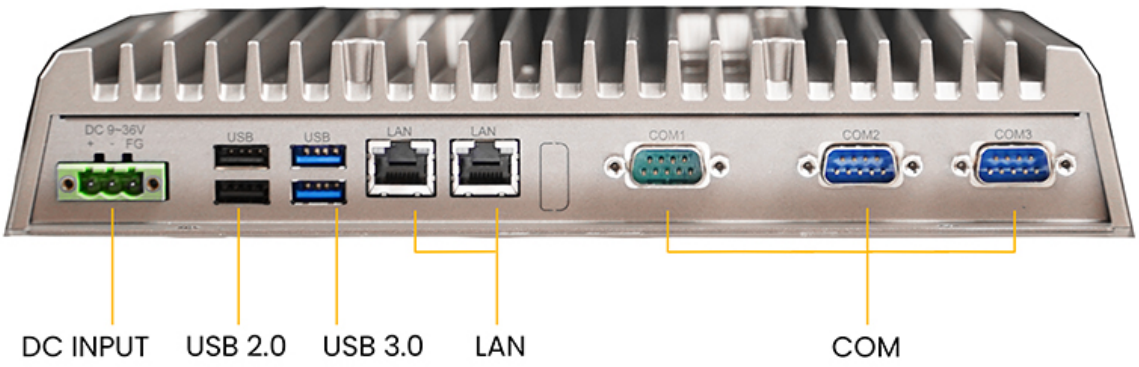
I/O Diagram Images



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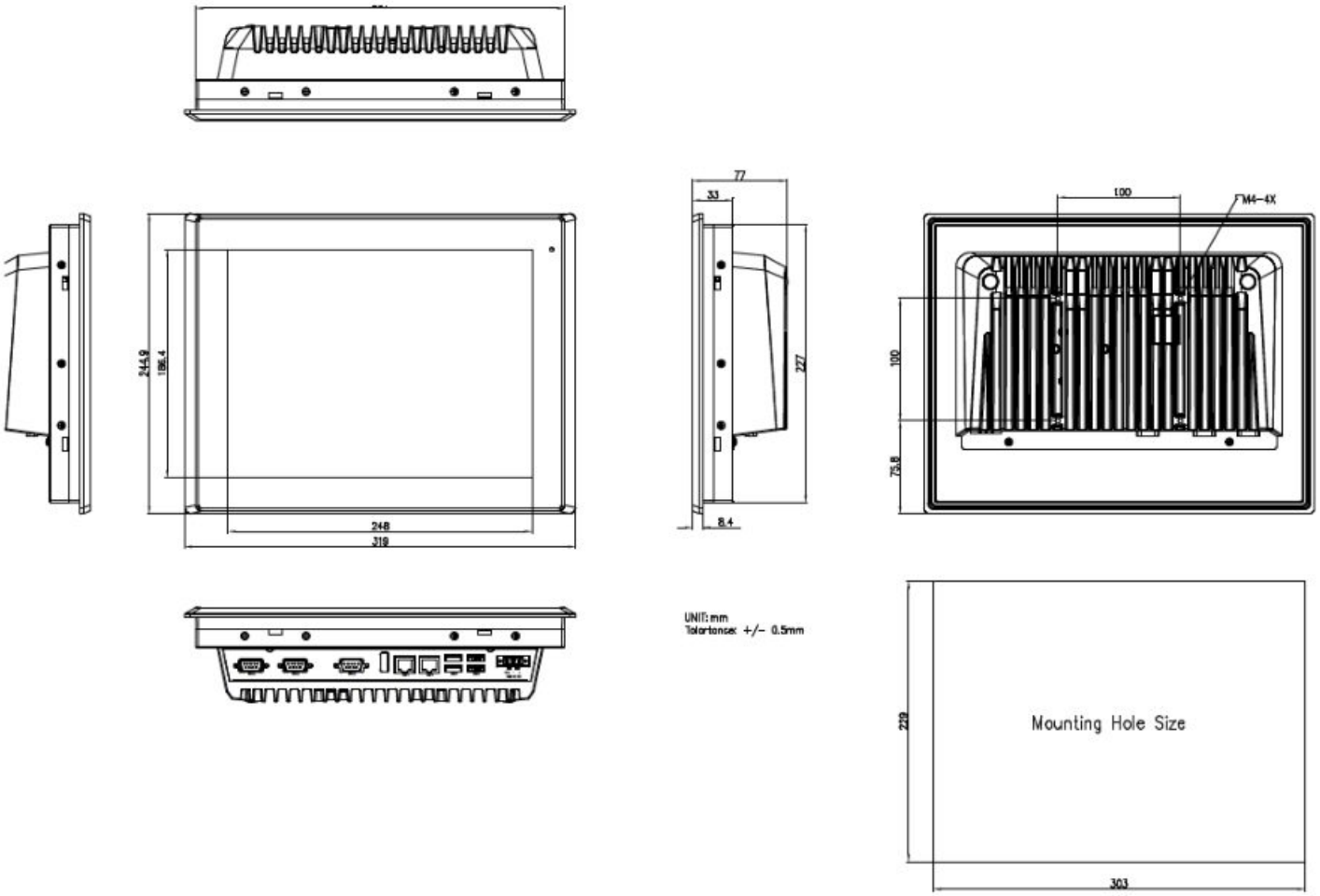
Tech Diagram Images



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