



Features

- 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

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	16GB, 32GB, 4GB, 64GB, 8GB
Storage Type	1x M.2 2280 NVME SSD slot
Storage Support	M.2: 256GB-1TB

Display

Screen Size	18.5"
Screen Resolution	1920 x 1080 (Full HD)
Screen Ratio	16:9
Brightness	300 nits, Optional 1000 nit High Brightness

Touch Screen

Touch Screen	Projected Capacitive (Multi-touch), Resistive
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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)

Power

Input Voltage Range	9-36V DC
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Operating Systems

Windows

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

Compatibility

Security Hardware

TPM 2.0

Expansion Slots

Internal M.2

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

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

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

Peripherals & Wireless Connectivity

WiFi

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

Bluetooth

Optional Bluetooth 5.3

Weight / Dimensions

Dimensions

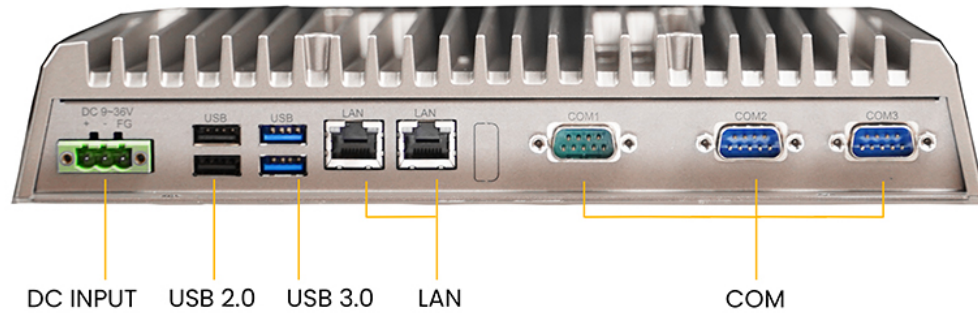
499 x 78 x 314 mm (19.6 x 3.1 x 12.4 in)

Warranty

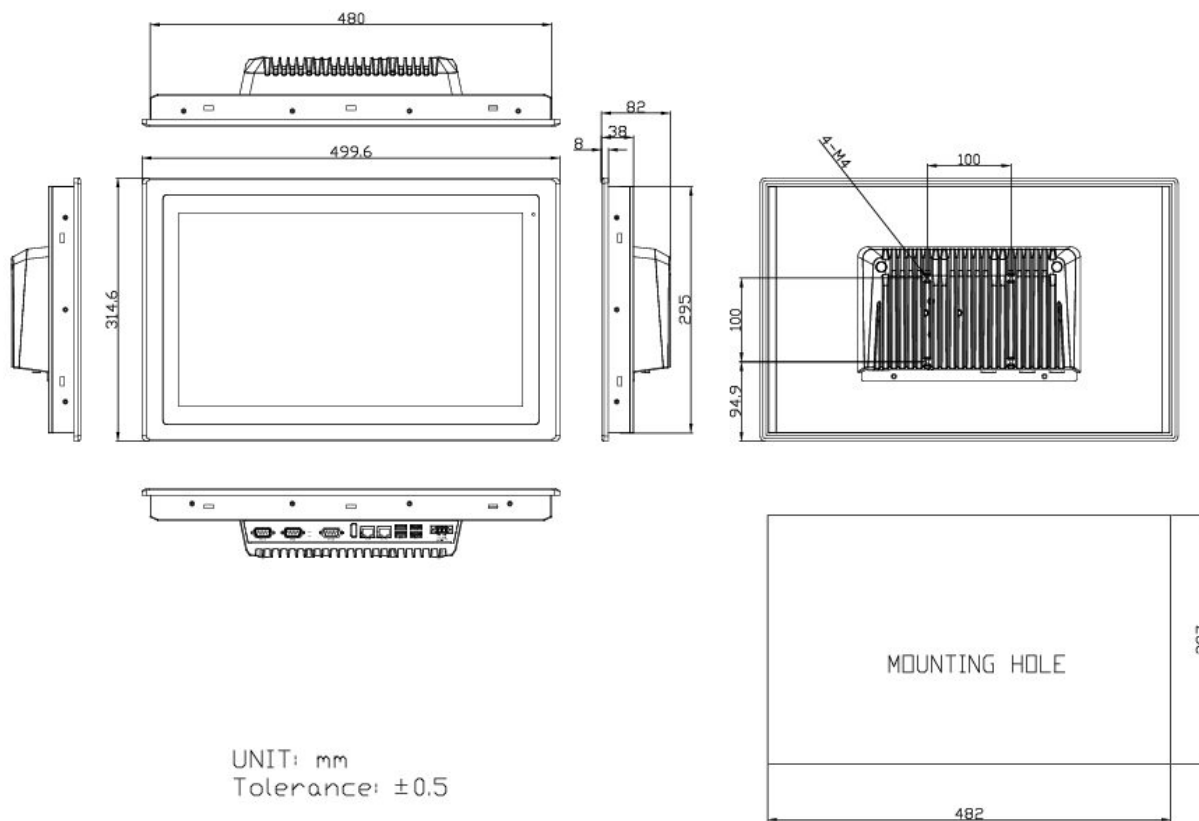
Warranty

Up to 5 Years

I/O Diagram Images



Tech Diagram Images



All specifications are subject to change without notice.