



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	23.8"
Screen Resolution	1920 x 1080 (Full HD)
Screen Ratio	16:9
Brightness	250 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
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Compatibility

Security Hardware	TPM 2.0
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Expansion Slots

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

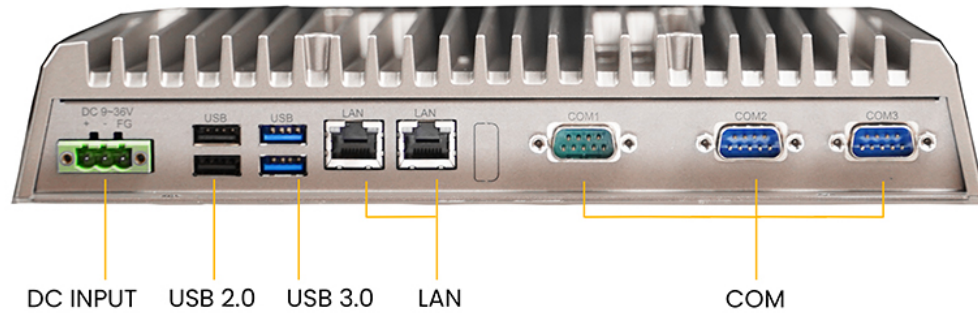
Weight / Dimensions

Dimensions	640 x 88 x 395 mm (25.2 x 3.5 x 15.6 in)
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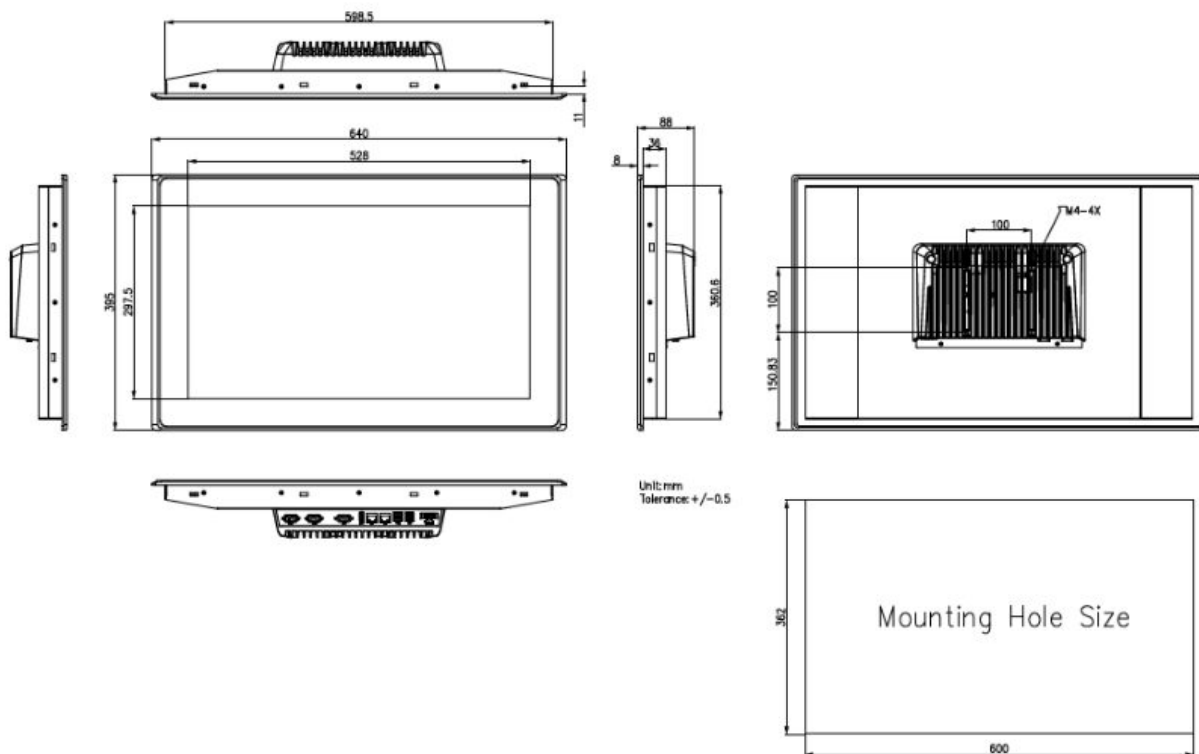
Warranty

Warranty	Up to 5 Years
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I/O Diagram Images



Tech Diagram Images



All specifications are subject to change without notice.