

TP-5645-24

23.8" Panel Mount Computer



Key Highlights

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

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The TP-5645-24 Panel Mount Computer excels in performance with an Intel 8th generation Core i3 or i5 CPU, ensuring long life cycle support. It supports up to 16GB of DDR4 memory and features an M.2 key capable of up to 512GB SSD storage, making it an excellent choice for both Linux and Windows-based applications. The computer's compact thermal design is complemented by a rugged die-cast aluminum enclosure, enabling fanless operation and durability in high shock and vibration environments. The IP66-rated front bezel provides protection from water and dust, and its full flat design helps prevent particulate buildup. This 24" Panel PC is ideal for applications such as serving as a data hub for IoT/IIoT sensors and running ERP (Enterprise Resource Planning) software.

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Technical Specifications

Primary Components

Processor Family	Intel Core I series 8th Generation Whiskey Lake-U
Processor Model	Core i3 8145UE
Processor Speed	2.2 GHz, Up to 3.9 GHz
Memory Type	1x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB
Storage Type	1x M.2 SATA3 2242 Slot
Storage Support	M.2: 256GB-1TB

Power

Input Voltage Range	9-36V DC
Standard Power Adapter	12Vdc, 5A, 60W US power cord

Battery

Battery Type	Optional Internal Battery
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Operating Systems

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

Security Hardware	TPM 2.0
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Thermal & Environmental

Operating Temperature	0°C - 50°C (32°F - 122°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 Wi-Fi 5
Bluetooth	Optional Bluetooth 4.0

Certification

Certifications	CE, FCC Class A, IEC 62368
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Specifications subject to change.

Display

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

Touch Screen

Touch Screen	Projected Capacitive (Multi-touch)
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External I/O Ports

USB	4x USB 3.0
Serial / Com	2x 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
Audio Ports	1x 3.5mm Audio Line-Out
Power Input Port	DC-in Jack (Phoenix Type)

Multimedia

Speakers	Optional Speaker
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Enclosure

Material	Aluminum
IP Rating	IP66 Front Bezel
Color	Gray
Mounting Options	Panel Mount, VESA 100 Mount

Weight / Dimensions

Weight	14.8 kg (32.6 lbs)
Dimensions	640 x 65.1 x 395 mm (25.2 x 2.6 x 15.6 in)

Warranty

Warranty	Up to 5 Years
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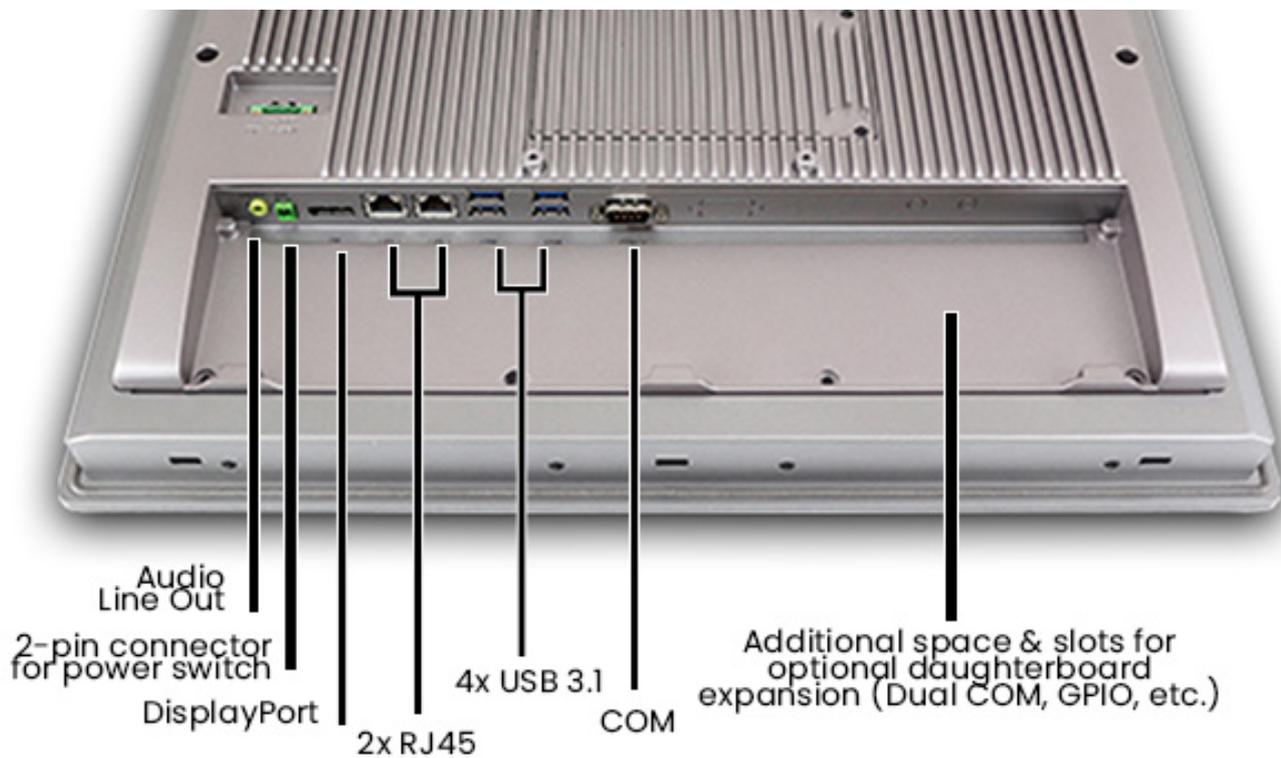
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I/O Diagram Images



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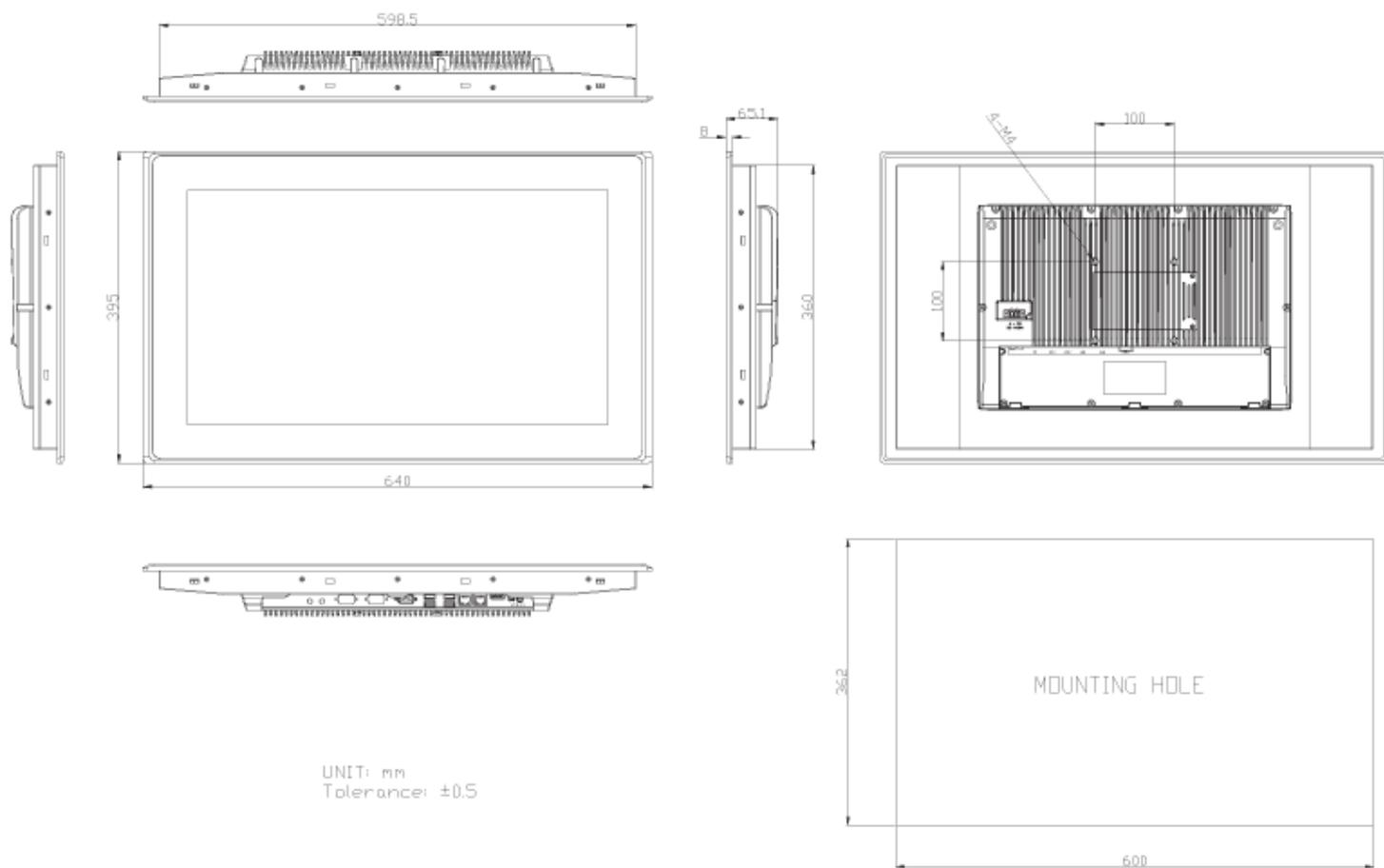
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Tech Diagram Images



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