TEGUAR

TB-5745-MVS

Industrial Machine Learning Computer



Key Highlights

- Intel 9th Generation Core i3/i5/i7 CPU
- Up to 4x Expansion Slots
- Support for Nvidia GPUs up to 75W TDP
- Wide Operating Temperature of -20°C to 60°C
- Easily Accessible SATA3 Storage Bays

VIEW ONLINE

Delivering a powerful performance and an abundance of I/Os, the TB-5745-MVS is a compact and rugged computer. Built with a fanless design and housed in a sturdy aluminum and steel enclosure, it offers flexibility for mounting options, including DIN rain or wall mounting. The TB-5745-MVS is highly configurable with 2x or 4x PCIe slots, enabling support for a wide range of expansion slots, making it ideal for industry-specific applications such as machine vision, edge computer, and quality control. With the power of an Intel 9th generation Core i3/i5/i7 CPU, and the added advantages of Windows 11 capabilities, this compact-sized computer delivers an impressive performance.

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Technical Specifications

Primary Components

Processor Family	Intel Core-I Series 9th Generation Coffee Lake
Processor Model	35W CPUs (Fanless) i3-9100TE; i5-9500TE (Standard); i7-9700TE
Processor Speed	Up to 3.8 GHz Turbo
Memory Type	2x DDR4 SO-DIMM
Memory Support	4GB, 8GB, 16GB, 32GB, 64GB
Storage Type	1x M.2 2280 NVME SSD slot, 2x 2.5" SATA Drive Bay for SSD/HDD (easily accessible)
Storage Support	64GB-2TB, Accessible Bays Support RAID 0/1

Power

Input Voltage Range	9-32V DC

Compatibility

Security Hardware	TPM 2.0

Thermal & Environmental

Operating Temperature	-20°C - 60°C - -20°C - 50°C (-4°F – 140°F (i3/i5 CPU), -4°F – 122°F (i7 CPU))
Storage Temperature	-40°C - 85°C (-40°F – 185°F)
Cooling Solution	Passive – Fanless with Heatsink
Storage Humidity	10% – 90% Non-condensing

Peripherals & Wireless Connectivity

WiFi	Optional WIFI b/g/n/ac
Bluetooth	Optional Bluetooth 4.0

Certification

Certifications	ANSI C63.4, CE, EN 55032/55035 and CISPR 32/35, FCC Class A, IEC 61000-3-2 (EMC), IEC 61000-3-3 (EMC), IEC 61000-4 (ESD)

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

External I/O Ports

USB	4x USB 3.2
Serial / Com	2x COM
Serial Protocol Detail	1x RS-232/422/485, 1x RS-232
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x HDMI, 1x VGA
Other Ports	Optional 2 additional LAN, 2 additional USB 3.2, 8-bit GPIO
Power Input Port	3-Pin DC-In (Phoenix Type)

Operating Systems

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

Expansion Slots

Internal M.2	1x M.2 for NVME SSD Support
Video Card Support	75W TDP or less and 180mm in length or shorter. Compatible cards include Nvidia T1000, GTX 1650, RTX A2000, and AMD W6400

Enclosure

Material	Aluminum, Steel
Color	Black
Control Buttons	Power Button
Mounting Options	DIN Rail Mount, Table Mount, Wall Mount

Weight / Dimensions

Weight	3.4 kg (7.5 lbs)
Dimensions	220 x 190 x 77 mm (8.7 x 7.5 x 3.0 in)

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I/O Diagram Images



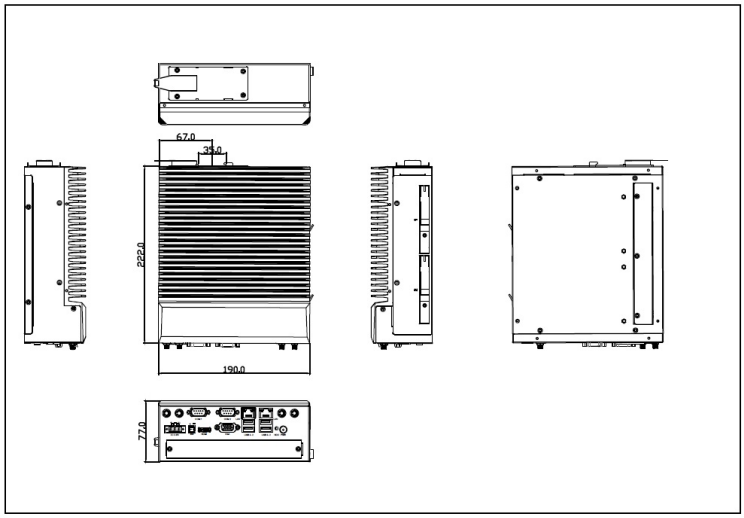
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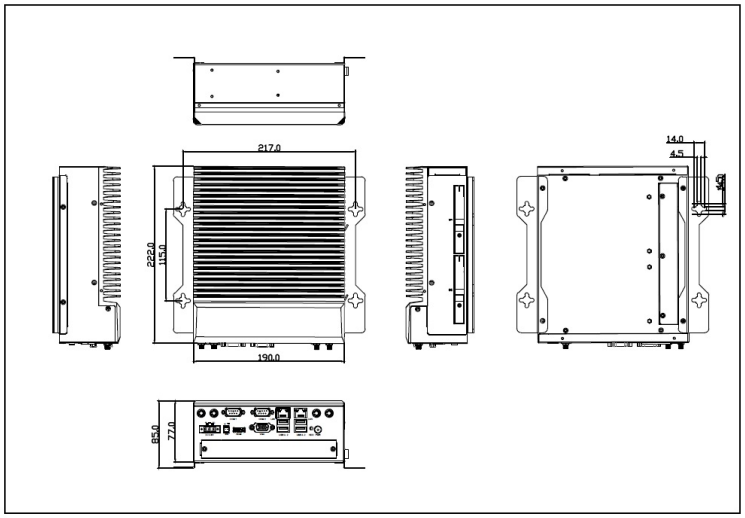
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Tech Diagram Images

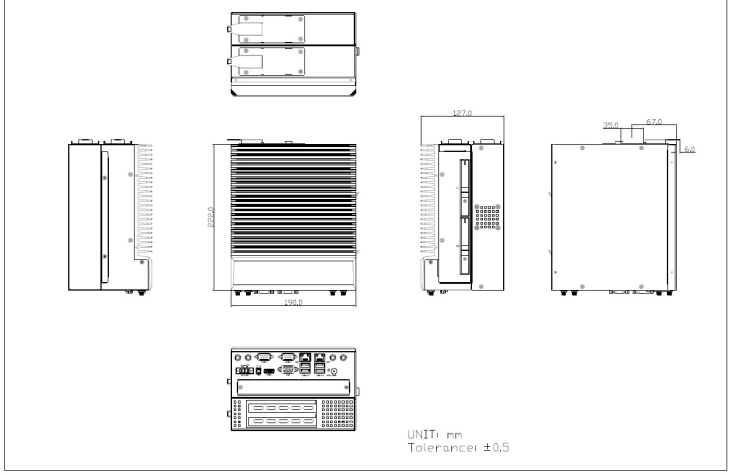
TB-5745-MVS (no expansion) with DIN Mount (option)



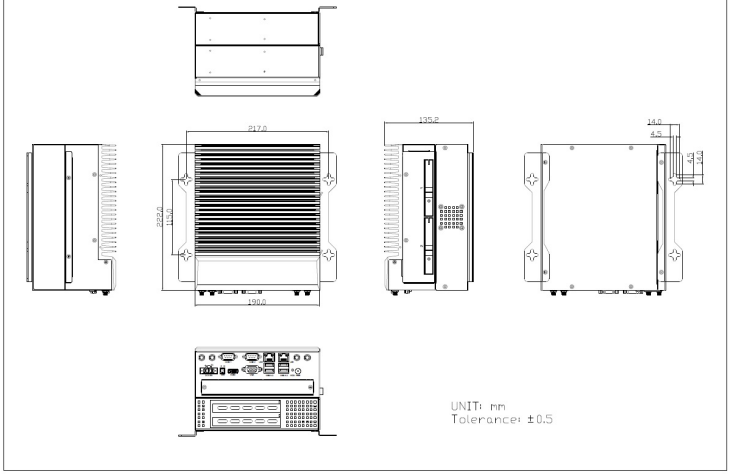
TB-5745-MVS (no expansion) with Wall Mount (standard)



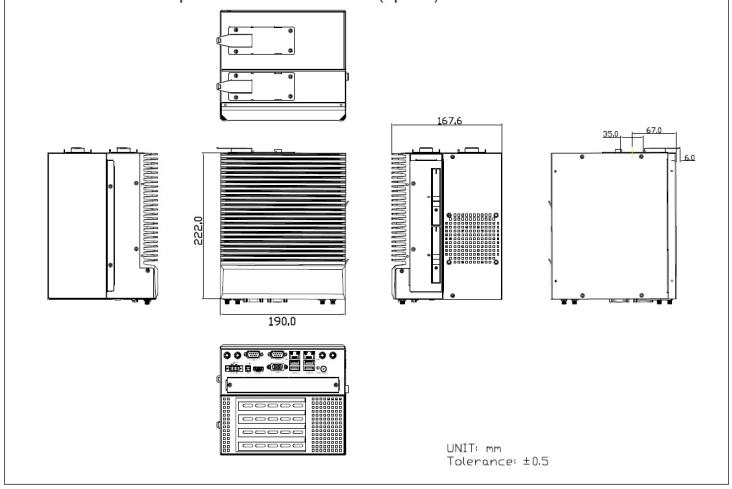
TB-5745-MVS X2 Expansion with DIN Mount (option)



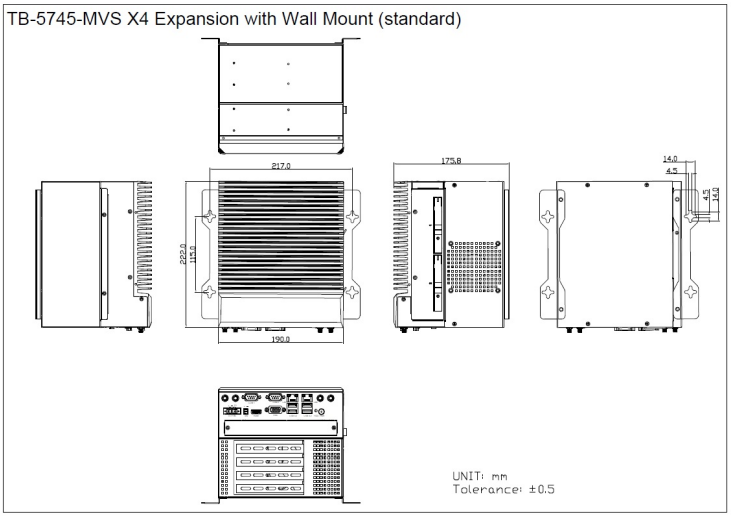
TB-5745-MVS X2 Expansion with Wall Mount (standard)



TB-5745-MVS X4 Expansion with DIN Mount (option)



TB-5745-MVS X4 Expansion with Wall Mount (standard)



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