TEGUAR

TB-7145-MVS

Rugged AI Platform PC

Key Highlights

- Raptor Lake processor from Intel's 13th Generation
- Windows 11 capability
- Optional input/output additions
- PCIe slot expansions (2X or 4X) for use of up to three PCIe cards
- Includes wall mounting, or a DIN rail-compatible variant
- Fanless, rugged build

VIEW ONLINE

Host your next computing project on the rugged AI platform PC: a processor that handles tough tasks, in a box that handles tough environments. This PC's three different forms offer different amounts of PCIe slots to suit your needs. Utilize the PCIex4 slots for Ethernet network adapters, 4K video capture cards for medical monitoring or data streaming, and raid controllers. Save the PCIex16 slot for the big jobs — a powerful Nvidia graphics card will fit right in using the 4X expansion's extra height. With these opportunities for expansion, IO additions, the processing power to support the most complex of machine inferencing, and a fanless, durable build, the rugged AI platform PC is built to hold down the fort where other PCs can't hold up.

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Technical Specifications

Primary Components

Processor Family	Intel Core I series 13th Generation Raptor Lake
Processor Model	Core i3-13100TE Optional, Core i5-13500TE Optional, Core i7-13700TE Optional
Processor Speed	Up to 4.8 Ghz
Memory Type	2x DDR5 SO-DIMM
Memory Support	8GB, 16GB, 32GB, 64GB
Storage Type	1x M.2 NVME SSD Slot (2242/2280), 2x 2.5" SATA Drive Bay for SSD/HDD (easily accessible)
Storage Support	Accessible Bays Support RAID 0/1, M.2 and 2.5": 256GB - 1TB

Power

Input Voltage Range	9-32V DC
Standard Power Adapter	300W No Expansion slot-NO PCIe, Expansion slot 2x PCIe and 4x PCIe use 450W

Compatibility

Security Hardware	Supports Intel Vpro i5/i7, 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 A/B/G/N/AC/AX -6 via M.2 E-Key slot
Bluetooth	Optional Bluetooth 5.3
Sim Card	1x Nano SIM Card Slot

Certification

Certifications	FCC and CE Compliant

Warranty

Warranty	Up to 5 Years

Specifications subject to change.

External I/O Ports

USB	4x USB 3.2
Serial / Com	4x COM
Serial Protocol Detail	RS-232 Default/RS-422/RS-485
Ethernet / LAN	2x RJ45 2.5 GbE LAN
Video Outputs	1x DisplayPort, supports DP++, 1x HDMI
Other Ports	Optional 2x additional 2.5Gbe LAN, 2 additional USB 3.2, 8-bit GPIO
Audio Ports	1x 3.5mm Audio Line-Out, 1x 3.5mm Microphone Jack
Power Input Port	3-Pin DC-In (Phoenix Type)

Operating Systems

Windows	Windows 10 IoT, Windows 10 Pro, Windows 11 IoT, Windows 11 Pro
Linux	Linux Ubuntu 22.04 or above (Contact your sales rep for more information)

Expansion Slots

Internal M.2	1x M.2 2230 Key E (for WiFi expansion option), 1x M.2 3042/3052 Key B (For 4G/5G Cellular expansion option)
Video Card Support	125W PCIe x16

Enclosure

Material	Aluminum, SECC Steel Chassis
Color	Black
Led Indicator Light	Power
Control Buttons	Power Button
Mounting Options	DIN Rail Mount, Wall Mount

Weight / Dimensions

Weight	3.9 kg (8.6 lbs)
Dimensions	222 x 190 x 93 mm (8.7 x 7.5 x 3.7 in)

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I/O Diagram Images

A. Audio Line-Out
B. Microphone
C. DC Input 9~32V
D. DisplayPort
E. HDMI
F. 2x LAN
G. 4x USB 3.2
H. 4x COM

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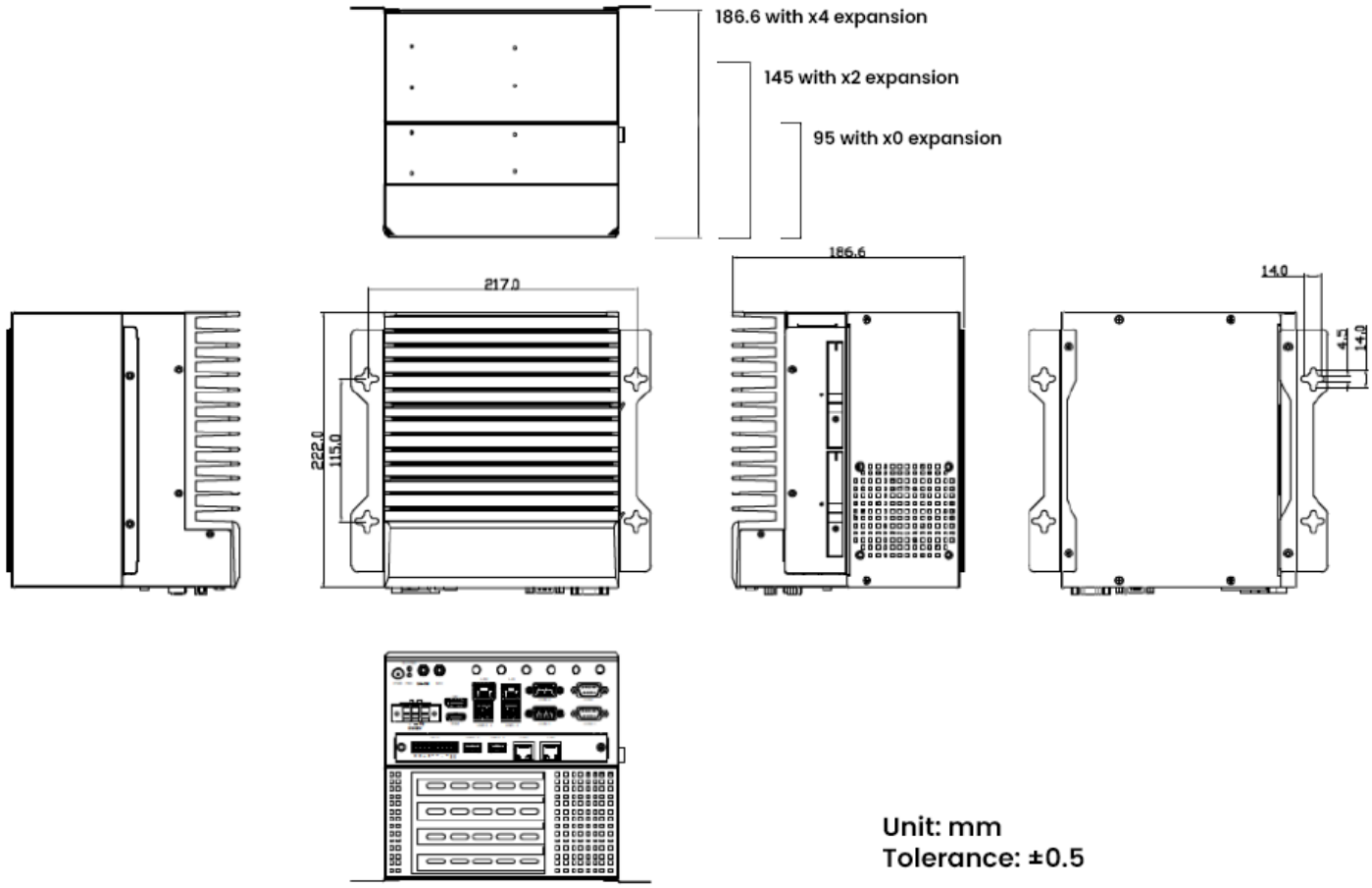
Tech Diagram Images



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