

TB-5745-PCIE

GPU Expansion x16 Box PC



Key Highlights

- PCI Express 4.0 x16 GPU Support
- Mainboard CPU Fanless Design for some Processors and GPU Card Expansion with Smart Fan support
- Intel 9th Gen. Core i7/i5/i3 Processors / Intel Xeon Processor
- Removable drive-bays for easy data storage maintenance
- Flexible expansion through I/O module with miniPCIe and Add-on card

[VIEW ONLINE](#)

Teguar's GPU Expansion x16 Box PC is perfect for those looking for a rugged box PC with a high level of thermal design power (TDP) available for a GPU. The TB-5745-PCIE contains 1x PCIe-16, 2x PCIe-4 and a mini PCIe capable of drawing a total of 400W together (as high as 650W available upon request). This makes the unit compatible with the strongest and most popular graphics cards on the market today, including the AMD Radeon Pro W6600, the MSI GeForce RTX 3090, or other graphics cards that are PCI Express 4.0 x16 compatible. Couple this with the option of fanless cooling systems and you have countless GPU options regardless of environment. In addition to the added GPU compatibility, the TB-5745-PCIE comes equipped with over a dozen unique I/Os, including four USB 3.1 ports, two LAN ports, two COM ports, HDMI, DP, GPIO and more.

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Technical Specifications

Primary Components

Processor Family	Intel Core-I Series 9th Generation Coffee Lake
Processor Model	Xeon Options E-2278GEL; E-2278GE
Processor Speed	Up to 4.7 GHz Turbo
Memory Type	2x DDR4 SO-DIMM
Memory Support	Up to 32GB (i3), Up to 64GB (i5/i7)
Storage Type	1x M.2 SATA3 2280 Slot, 2x 2.5" SATA Drive Bay for SSD/HDD (easily accessible), 2x 2.5" SATA Drive Bay for SSD/HDD (Internal)
Storage Support	32GB-1TB, M.2: 64GB-1TB

Power

Input Voltage Range	DC 12-36V (Default 24V)
Max Power Consumption	250W for PC, up to 400W reserved for PCIe Cards
Standard Power Adapter	AC100-240V Input, (24V/25A), US AC Power Cord

Compatibility

Security Hardware	TPM 2.0
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Expansion Slots

Internal M.2	1x M.2 for NVME SSD Support
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Enclosure

Material	Metal Steel Chassis
Color	Black
Led Indicator Light	Power
Control Buttons	Power Switch
Mounting Options	Desktop Stand, Wall Mount

Weight / Dimensions

Weight	7 kg (15.4 lbs)
Dimensions	200 x 200 x 350 mm (7.9 x 7.9 x 13.8 in)

Warranty

Warranty	Up to 5 Years
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Specifications subject to change.

Display

Screen Resolution	Supports Up to 4096 x 2160 for HDMI Output, Supports Up to 4096 x 2304 for DP Output
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External I/O Ports

USB	1x USB 2.0 (Internal Type A on Motherboard), 2x USB 2.0, 4x USB 3.1 Gen.1 (Lockable)
Serial / Com	2x COM
Serial Protocol Detail	RS-232/422/485 DB-9, Default RS-232
Ethernet / LAN	2x RJ45 GbE LAN
Video Outputs	1x DisplayPort 1.2, 1x HDMI
Other Ports	1 x 8-bit GPIO (4x in, 4x out, Isolated 2500Vrms, NPN/PNP Selected, Default NPN)
Audio Ports	1x Audio Line-Out, 1x Mic-In
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 4.20.2+

Thermal & Environmental

Operating Temperature	0°C - 45°C (32°F - 113°F (i7)), 0°C - 50°C (32°F - 122°F (i3/i5))
Storage Temperature	-40°C - 85°C (-40°F - 185°F)
Cooling Solution	35W CPU (Fanless), 65W CPU (External Fan)
Humidity Range	10% - 90% Non-condensing
Storage Humidity	10% - 90% Non-condensing

Peripherals & Wireless Connectivity

WiFi	Optional WiFi b/g/n/ac
Bluetooth	Optional Bluetooth 4.0
Sim Card	1x Micro SIM Card Slot

Certification

Certifications	CE, FCC Class A
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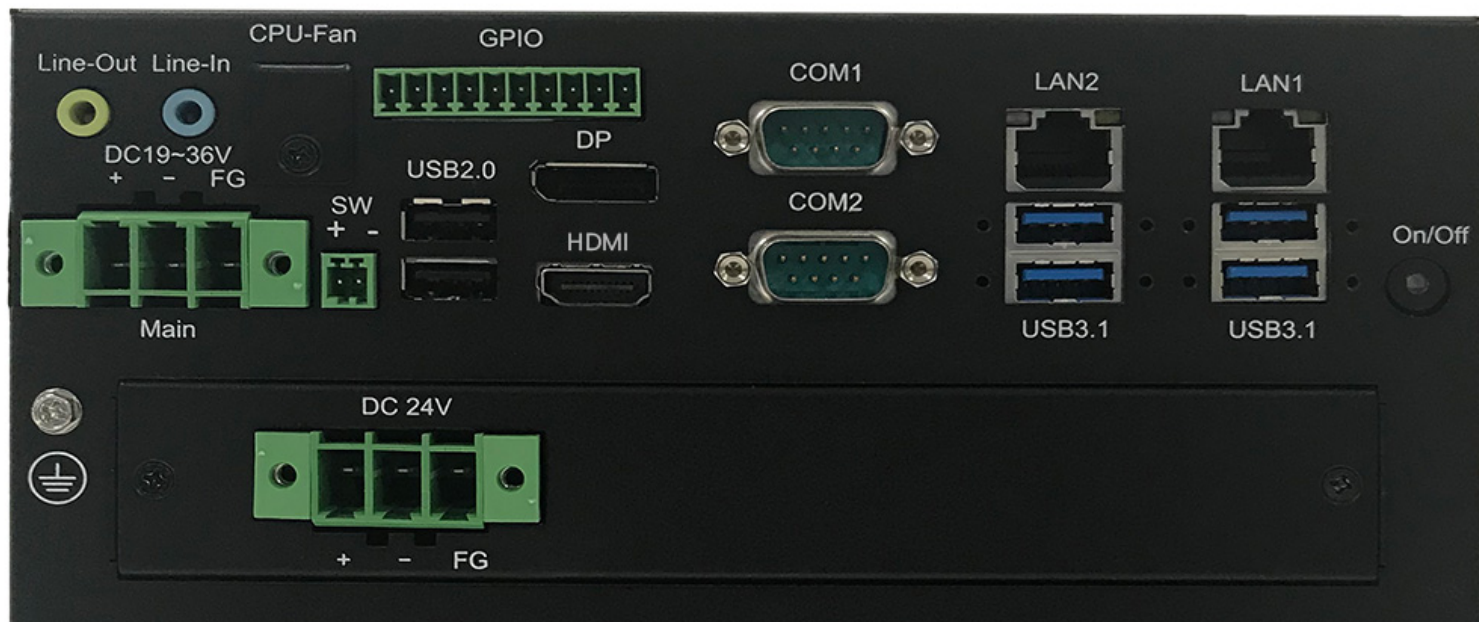
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I/O Diagram Images



USA

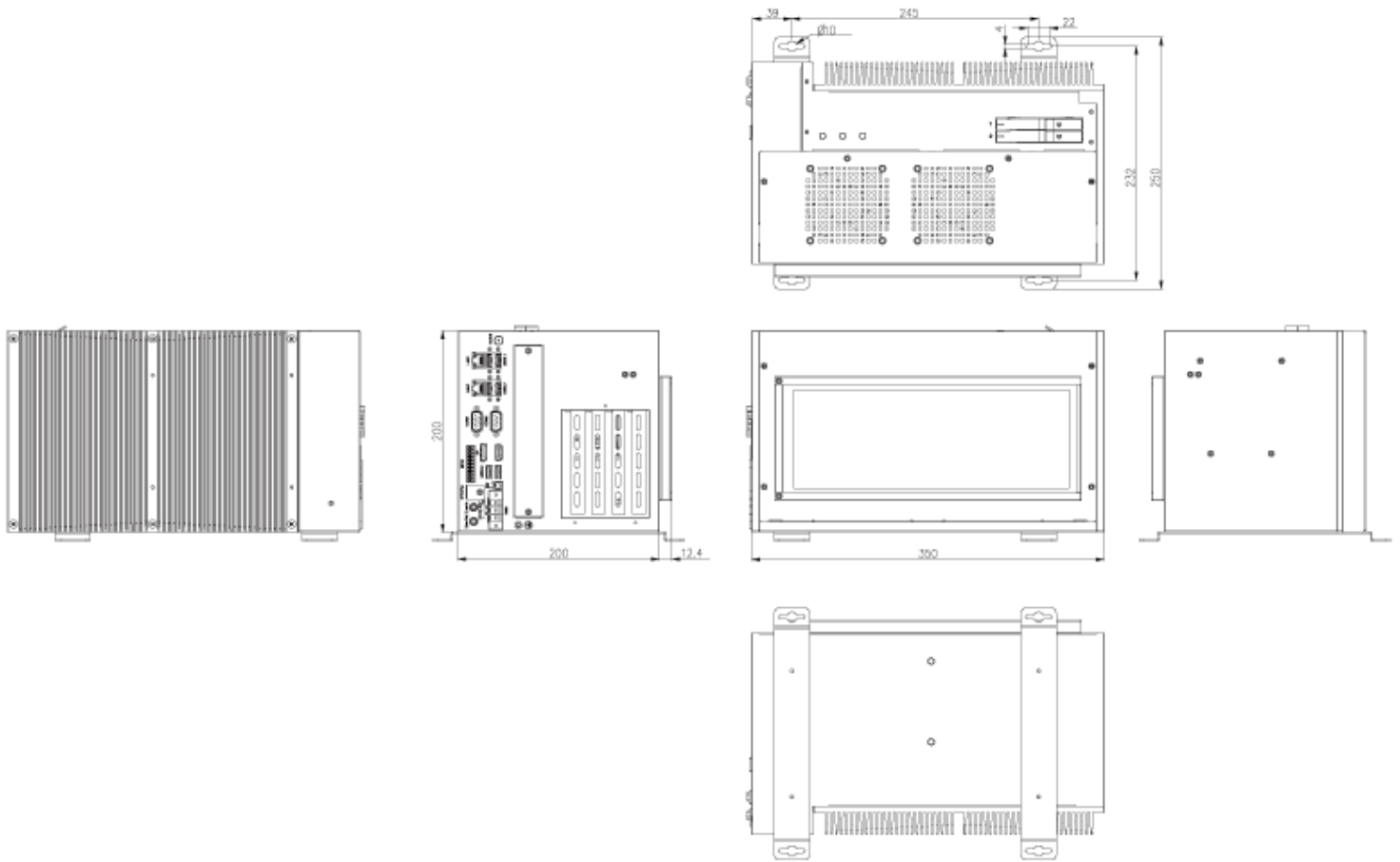
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