



Features

- 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 miniPCle and Add-on card

Technical Specifications

General

Featured Product yes

Expansion Slots

Internal Mini PCIe	2x Mini-PCle
Internal M.2	1x M.2 for NVME SSD Support
PCIe Slot	Yes
PCIe Expansion Details	PCIe x16 Dual Slot and PCIe x4

Primary Components

Processor Family	Intel Core-I Series 9th Generation Coffee Lake
Processor Model	35W CPUs (Fanless) i3-9100E; i5-9500E (Standard); i7-9700E, 65W CPUs (Require External Fan) i3-9100TE; i5-9500TE; i7-9700TE, 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	2x 2.5" SATA Drive Bay for SSD/HDD (easily accessible), 2x 2.5" SATA Drive Bay for SSD/HDD (Internal), 1x M.2 SATA3 2280 Slot
Storage support	32GB-1TB, M.2: 64GB-1TB

Multimedia

Display

Resolution	Supports Up to 4096 x 2160 for HDMI Output, Supports Up to 4096 x 2304 for DP Output
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Touch Screen

External I/O ports

USB	2x USB 2.0, 4x USB 3.1 Gen.1 (Lockable), 1x USB 2.0 (Internal Type A on Motherboard)
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	1x Audio Line-Out, 1x Mic-In
Power Input Port	3-Pin DC-In (Phoenix Type)

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

Battery

Thermal and Environmental

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

Enclosure

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

Peripherals & Wireless Connectivity

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

Dimensions / Weight

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

Certification

Certifications	CE, FCC Class A
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Operating Systems

Windows Windows 11, Windows 10 IoT, Windows 10 Pro
Linux Linux 4.20.2+

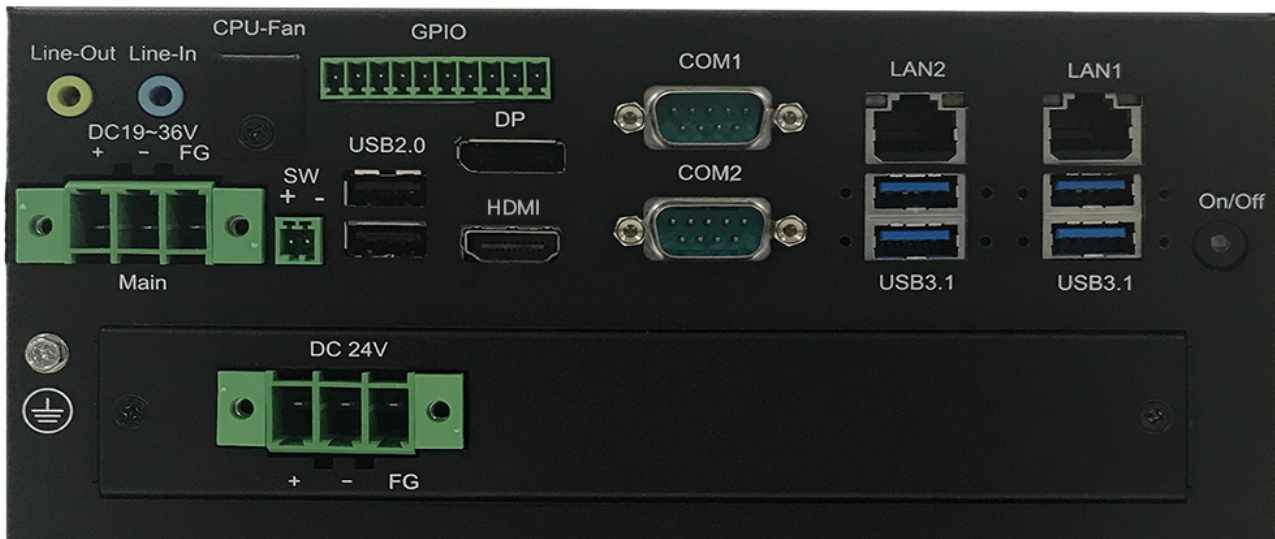
Warranty

Warranty Up to 5 Years

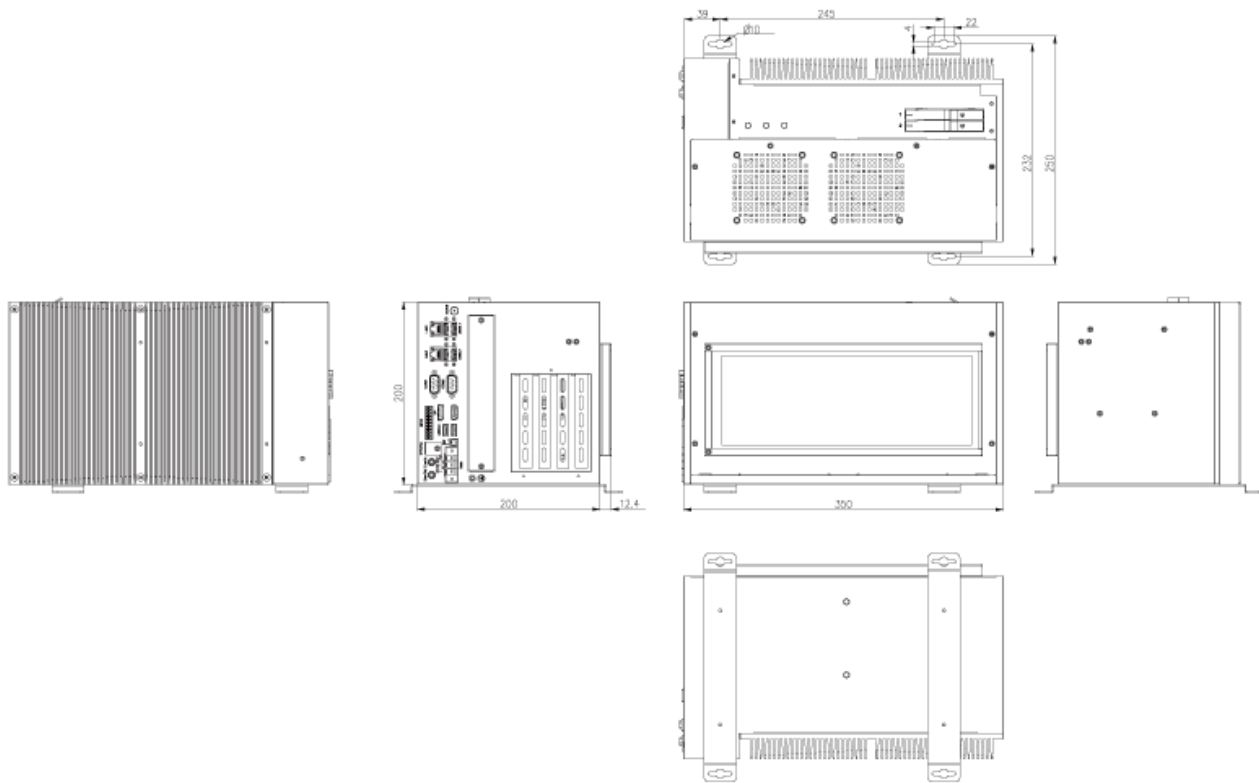
Compatibility

Security Hardware TPM 2.0

Inputs / Outputs



Technical Drawings



All specifications are subject to change without notice.