



Preliminary



Features

- AMD Ryzen™ Embedded 7000 Processors with B650 chipset
- Dual-Channel DDR5 5200, UDIMM 4 slots, Max. 128GB, ECC support
- Triple display: DP/HDMI/DVI-D and Dual GbE LAN
- 1x PCIe x16 (Gen5) / 1x PCIe x4 (Gen5) 1x PCIe x4 (Gen4) / 1x PCIe x1 (Gen3) / 1x PCI
- 2x M.2 2280 M-Key (PCIe x2 Gen4, supports NVMe)
- Support RAID 0, 1
- TPM 2.0

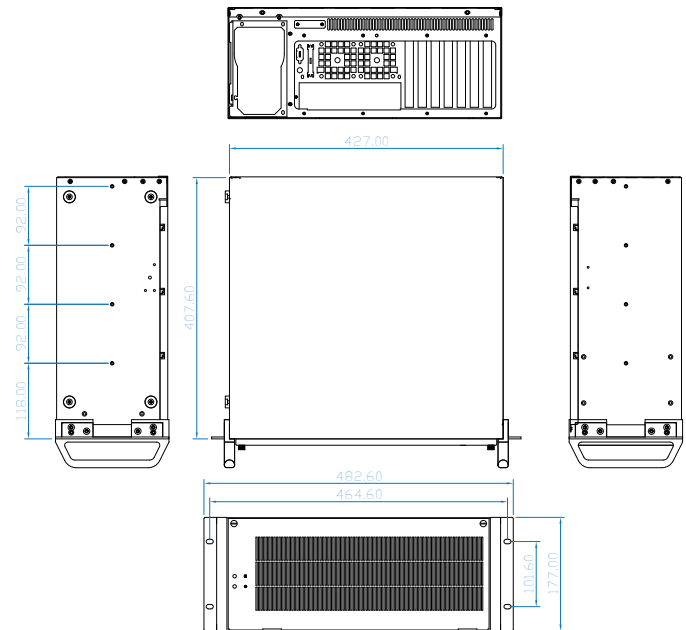
Specifications

System Mainboard	AMD Ryzen™ Embedded 7000 series ATX Motherboard
CPU Type	AMD Ryzen™ Embedded 7000 Processors
System Speed	Max. 4.7GHz
Memory	Dual-Channel DDR5 5200, UDIMM 4 slots, Max. 128GB, ECC support
AI Inference Computing Power	Integrated AMD Ryzen™ 7000 Series APU with Zen 4 CPU and RDNA™ 3 GPU architecture / 12 RDNA3 compute units / up to 8.6 TFLOPS FP32 peak performance / support 1x Gen5 PCIe (x16)
Front Panel External I/O	2x USB 2.0 via pin header 2x USB 2.0 Type-A vertical connector 4x USB 3.2 Gen 2 2x USB 3.2 Gen 1 with PDPC support
Rear Panel External I/O	1x Dual DB9 stack connector for COM 1 (RS-232/422/485) (jumperless selection) COM 2 (RS-232) 4x COM via pin header (RS-232)
Expansion Slot	1x PCIe x16 (Gen5) / 1x PCIe x4 (Gen5) 1x PCIe x4 (Gen4) / 1x PCIe x1 (Gen3) 1x PCI
Storage	4x SATA 6Gb/s 2x M.2 2280 M-Key (PCIe x2 Gen4, supports NVMe)
Power Requirement	1x ATX standard 24-pins type & 8-pin type (+12V only)
Power Supply	1x ATX standard 850W PSU
Construction	Aluminum & steel
Chassis Color	Black
Mounting Type	NA
Dimensions	427mm(W) x 407.6mm(D) x 177mm(H) 16.8(W) x 16(D) x 6.96(H)
Weight	TBD
Operating Temperature	0°C~60°C (32°F~140°F)
Storage Temperature	20°C~80°C (-4°F~176°F)
Relative Humidity	95% (non-condensing @60°C)
Vibration	Non-operating: 1.0 grms / 5~500Hz / random operation Operating: 0.25 grms / 5~500Hz / random operation
Shock	Operating: 20 g / 11 ms Non-operating: 40 g / 11 ms
Certification	CE / LVD / FCC Class B
Operating System	Windows 11 Windows Server 2022 Ubuntu 22.04

Ordering Information

ES1001	Chassis with ATX motherboard w/o CPU, memory, storage, supports AMD Ryzen™ Embedded 7000 Series processors
--------	--

Dimensions and Drawing



Remarks: 1. Specifications are subject to change without prior notice
2. ODM/OEM is available. 3. For user manual & datasheet download, visit www.ibt.ca