

MIC-735E-10

NVIDIA IGX Platform for Enterprise Server Tower Chassis

Preliminary



Features

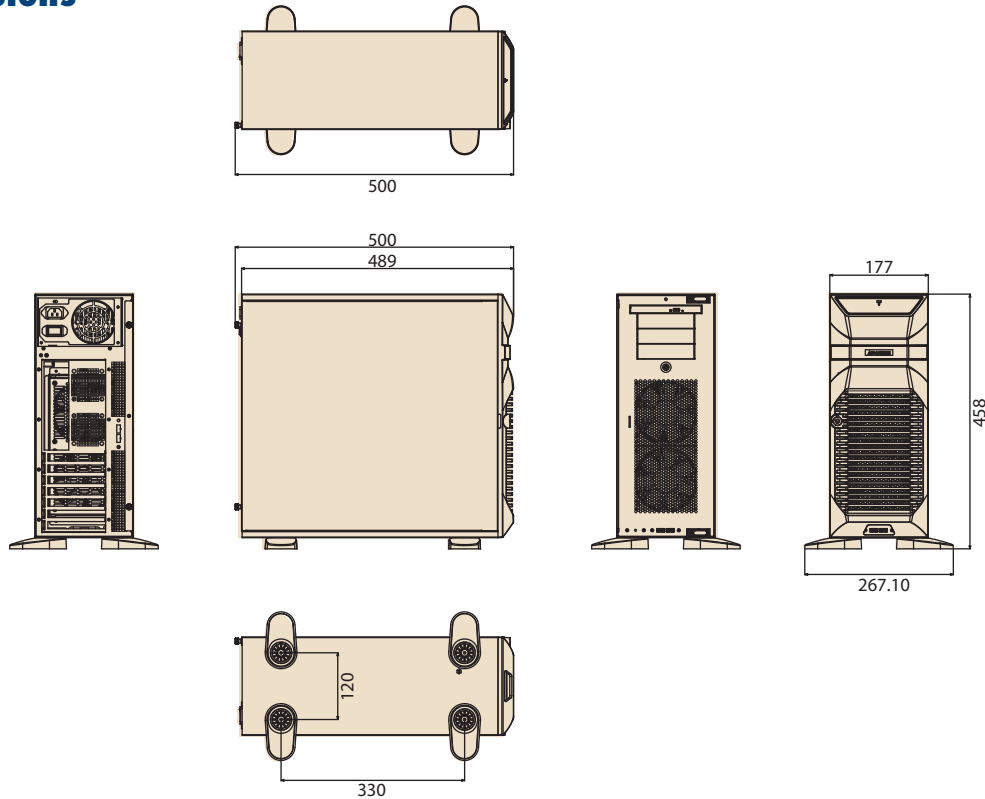
- Enterprise grade server tower chassis edge AI system
- Embedded with NVIDIA® IGX Orin™ up to 248 TOPS
- Supports 1 x NVIDIA RTX A6000 for powerful visual computing

Specifications

		NVIDIA® IGX Orin™™
Processor	CPU	12-core Arm® Cortex®-A78AE v8.2
	GPU	2,048-core NVIDIA Ampere architecture with 64 Tensor Cores
	Memory	64GB 256-bit LPDDR5 204.8GB/s
	Storage	64GB eMMC 5.1
Controller	Safety MCU (SMCU)	Infineon Aurix TC397
	BMC (Baseboard Management Controller) Module	Aspeed AST2600
	Controller) Module	Microchip ERoT
I/O	PCIe	2 x PCIe Gen5 (from ConnectX-7 PCIe switch) 1 x PCIe x8 lanes within 16x physical connector 1 x PCIe x16 lanes within 16x physical connector
	USB	1 x USB 3.2 Gen2 Type-C connectors 4 x USB 3.2 Gen2 Type-A connectors
	Ethernet	2 x RJ-45 (up to 1 GbE) 2 x QSFP ports (up to 100GB per port/up to 25 Gb/s per channel) supported by ConnectX-7 chipset
	Display	One DisplayPort 1.4a output
	Audio (AU)	Two 3.5mm AU jack (Mic In, Line out)
Wireless	Wi-Fi	802.11 a/b/a/1/ac 6T 5.0
Expansion	PCIe	1 x PCIe Gen5 double width slot (x16) for optional NVIDIA RTX A6000 discrete GPU card 1 x PCIe Gen5 single width slot (x8)
Storage	Storage	1 x M2 (M-Key 2280, NVMe, Signal: PCIe Gen4 x4)
Power	Type	500W / 1200W Single power supply (Select 1200W if RTX A6000 combined)
Environment	Temperature	Operating: 5 ~ +45 °C (41 ~ 113 °F) with wide-temp peripheral Non-Operating: -40 ~ +70 °C (-40 ~ +156 °F)
	Humidity	10 ~ 95% @ 40 °C, non-condensing 10 ~ 95% @ 60 °C, non-condensing
	Vibration	1 Grms 2 G
	Shock	10 G (with 11 ms duration, half sine wave)
Cooling	Fan	2 (12cm/150CFM)
Miscellaneous	LED Indicators	Power
Physical Characteristics	Dimensions (W x H x D)	267.1 x 458 x 500 mm (10.52" x 18.03" x 19.69")
Certificate	EMC & Safety Cert.	CE, FCC Class A CB/UL CCC

Dimensions

Unit: mm [inch]



Ordering Information

Part Number	Description
MIC-735E-106-A1	Enterprise server tower chassis edge AI inference machine based on NVIDIA IGX platform, with memory 64 GB and eMMC 64 GB
96PD-00963	RTX A6000 48GB PCI-Ex16 DP*4 graphics card

Optional Accessories

Part Number	Description
96CB-SATAPOWER-6P2	SATA power wire 6-pin to big 4-pin (for slim ODD)
989K008734	Convert module for dual 9.6mm(H) 2.5" HDDs in a 3.5" cage
IPC-DT-3120E	Mobile rack for converting a 3.5" drive bay to dual 9.6mm(H) 2.5" HDD trays
1700026948-01	USB 3.0 cable (30cm) for rear panel
1700011592	USB 2.0 cable (50cm) for rear panel
1750006117	6cm system fan (23.6CFM) for rear panel

Note: HPC-7000 does not support AIMB series motherboards

Front View



Rear View

