

# MIC-735E-10

## NVIDIA IGX Platform for Enterprise Server Tower Chassis

Preliminary



### Features

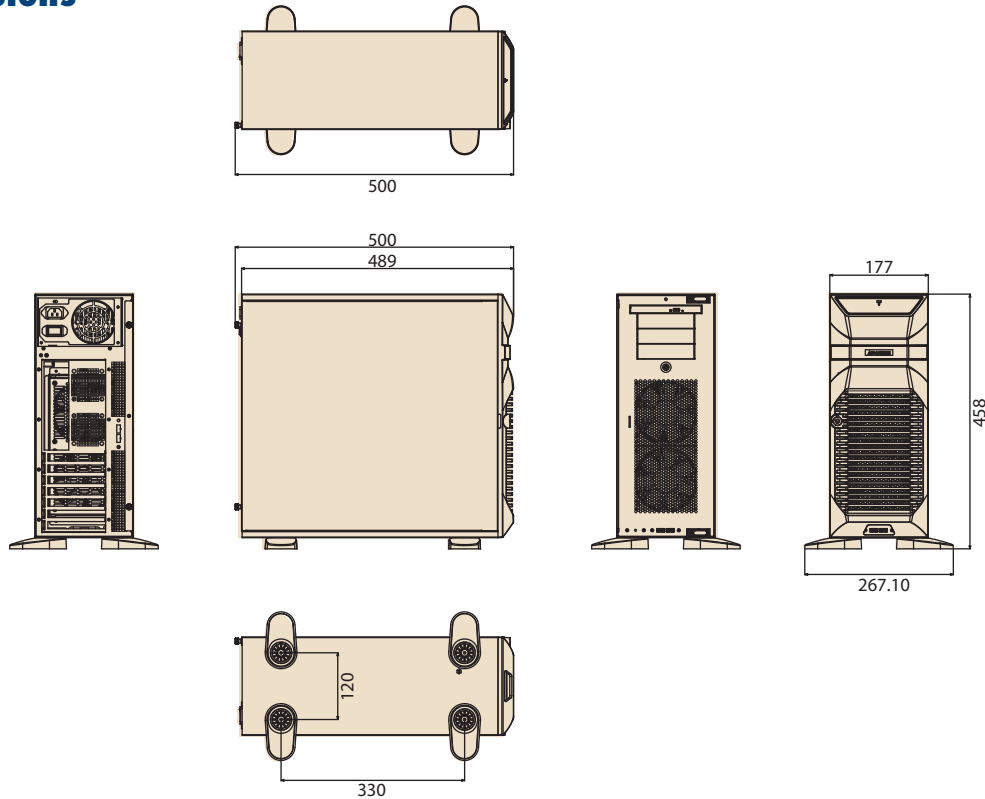
- Enterprise grade server tower chassis edge AI system
- Embedded with NVIDIA® IGX Orin™ up to 248 TOPS

### 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) 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	
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	
	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.	Support CE, FCC Class A CB/UL CCC (Need to discuss the configuration with customer first and certify it on a project basis.)	

## 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

## 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

