

MIC-735M-10

NVIDIA IGX Platform for Medical Grade Edge AI Small Tower Chassis

Preliminary



Features

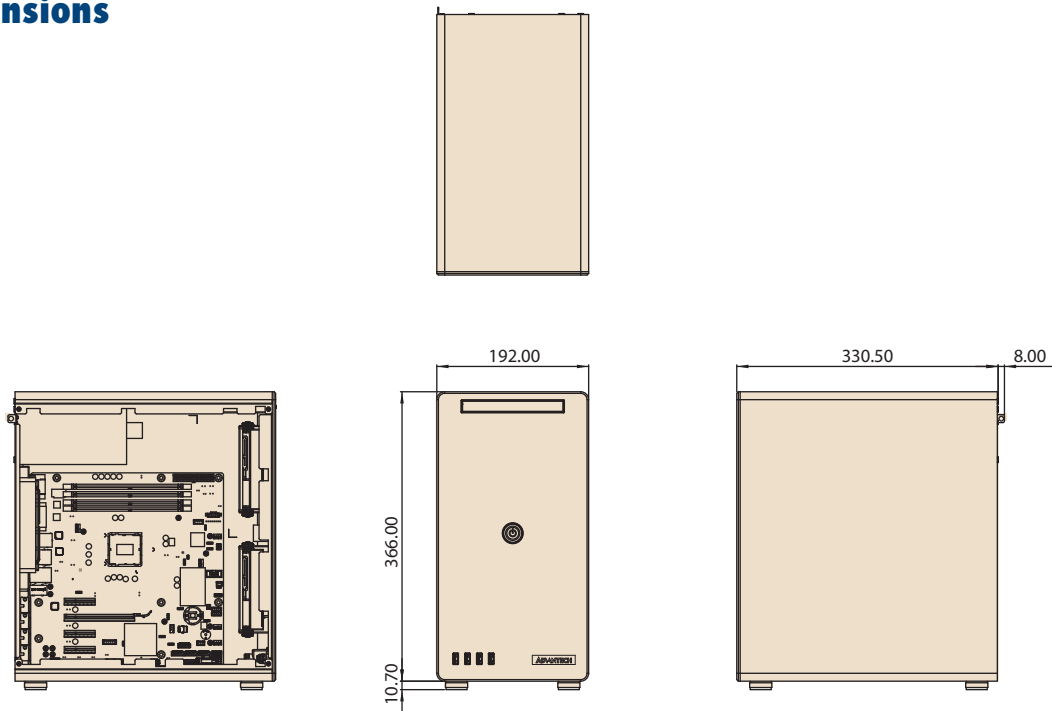
- Medical grade small tower edge AI system
- Embedded with NVIDIA® IGX Orin™ up to 248 TOPS
- Supports 1 x NVIDIA RTX 6000 Ada for powerful visual computing

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 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/g/n/ac BT 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 M.2 (M-Key 2280, NVMe, Signal: PCIe Gen4 x4)	
Power	Type	700W PS2 Single power supply (medical grade)	
Environment		Operating	Non-Operating
	Temperature	5 ~ +45 °C (41 ~ 113 °F) with wide-temp peripheral	-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	1 x 12cm system fan on the rear side 1 x 8cm system fan on the bottom side (optional)	
Miscellaneous	LED Indicators	Power	
Physical Characteristics	Dimensions (W x H x D)	192 x 376.7 x 338.5 mm (7.56" x 14.83" x 13.33"), with chassis feet and key lock bracket	
	Weight	11 kg	
Certificate	EMC & Safety Cert.	Support Medical CE, FCC Medical, IEC 60601-1 Compliance (MDR) UL 60601-1 (Need to discuss the configuration with customer first and certify it on a project basis.)	

Dimensions

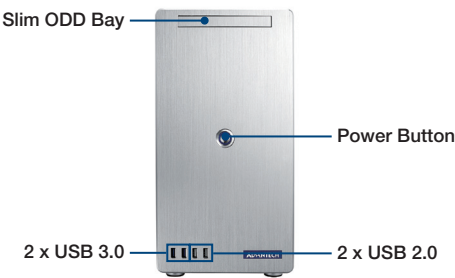
Unit: mm



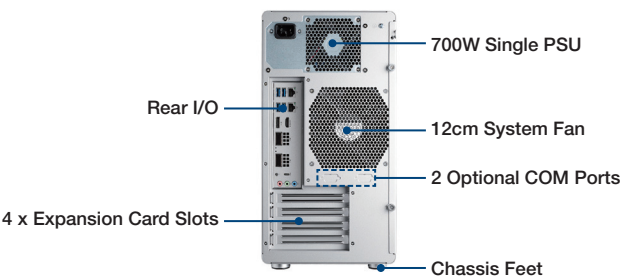
Ordering Information

Part Number	Description
MIC-735M-106-A1	Medical Edge AI inference small tower chassis machine based on NVIDIA IGX platform, with memory 64 GB and eMMC 64 GB
SKY-QUAD-6000A-48	RTX 6000 Ada PCI-Ex16 DP*4 graphic card

Front View



Rear View



Bottom View

