

MIC-735I-10

NVIDIA IGX Platform for Short Depth 4U Front Access Chassis

Preliminary



Features

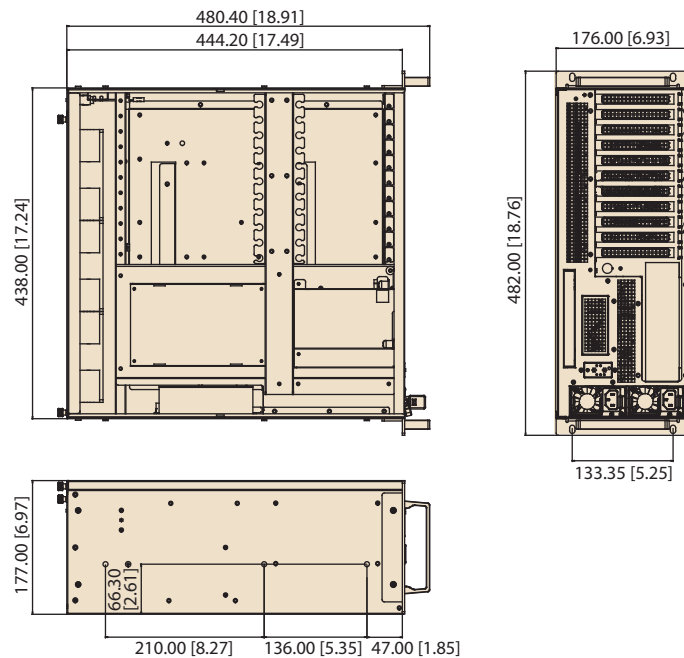
- Industry grade short depth 4U rackmount chassis edge AI system
- Embedded with NVIDIA® IGX Orin™ up to 248 TOPS

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)	Aspeed AST2600	
	Controller) Module	Microchip ERoT	
I/O	PCIe	2 x PCIe Gen5 (from ConnectX-7 PCIe switch) 1 x PCIe x8 lanes with 16x physical connector 1 x PCIe x16 lanes with 16x physical connector	
	USB	1 x USB 3.2 Gen2 Type-C connector 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	Single Flex ATX 850W Power supply	
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	0.3 Grms	2 G
	Shock	10 G (with 11 ms duration, half sine wave)	
Cooling	Fan	3 (12cm/238CFM)	
Miscellaneous	LED Indicators	Power, LAN1, LAN2, HDD	
Physical Characteristics	Dimensions (W x H x D)	438 x 177 x 450 mm (17.24" x 6.97" x 17.7")	
	Weight	16 kg	
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-735I-106-A1	Industrial short depth 4U Front Access Chassis edge AI inference machine based on NVIDIA IGX platform, with memory 64 GB and eMMC 64 GB

Packing List

Part Number	Description	Quantity
1960087090N001	Rack Mounting Bracket	2
1960076093T001	Handler	2
1960097013N000	GPU retainer HPC-7420	2
2130021428T000	Fan filter	1

Optional Accessories

Storage Accessories

Part Number	Description	Quantity
98R1310010E	Module to support 2*2.5" Hot-Swappable HDDs with HDD Trays	2
989K008734	Module to securely fix one or two 2.5" HDDs in a 3.5" drive bay. ^{Note1}	2

Note1: 2 x 2.5" HDD/SSD only for HDD thickness less than 9.6 mm, 15mm HDD only supports one.

Cables and other accessories

Part Number	Description	Quantity
96CB-SATAPOWER-6P2	ODD power cable	1
1700071000	ODD data cable	1
96CB-MSAS-SATA-4P3	CABLE MINI SAS TO 4P SATA 0.6M 6G/S (For SASII RAID Card)	1
96CB-MSASH-SATA-4P	CABLE MINI SAS HD TO 4P SATA SGPIO 0.8M (For SASIII RAID Card)	1
1700026948-01	USB 3.0 cable (Rear panel reserved USB port)	1
968DE00012	20"-31" Slide Rail Kit	1
96PSRM-A1K2WCRPA	RPSU CRPS Module A/D 100-240V 1200W W/PFC 80+	1

Front View



Rear View

