

MIC-735I-10

NVIDIA IGX Platform for Short Depth 4U Front Access Chassis

Preliminary



Features

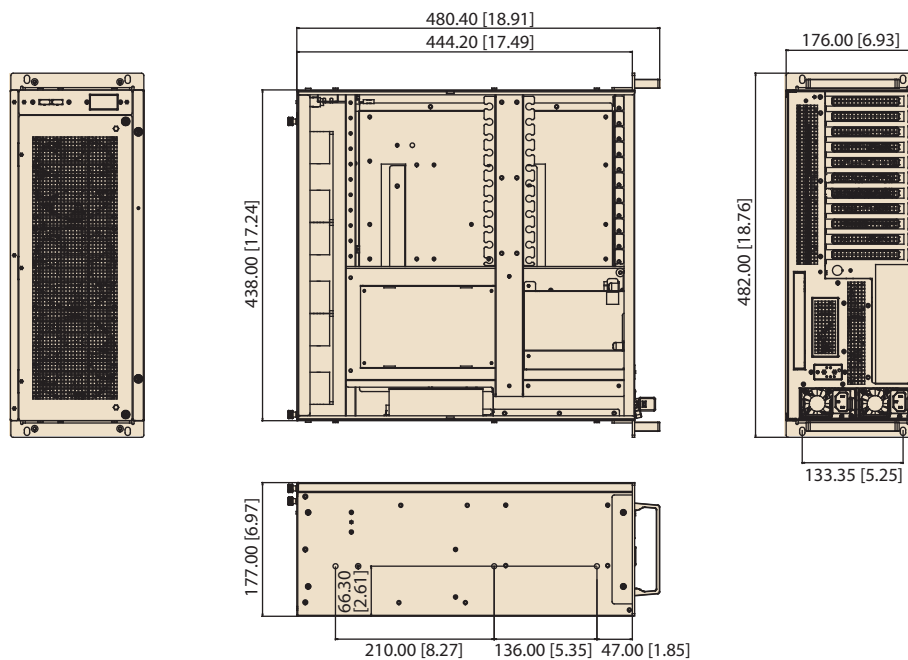
- Industry grade short depth 4U rackmount chassis edge AI system
- Embedded with NVIDIA® IGX Orin™ up to 248 TOPS
- Supports 1 x NVIDIA RTX A6000 for powerful visual computing

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 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) 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	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.	CE, FCC Class A CB/UL CCC	

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
96PD-00963	RTX A6000 48GB PCI-Ex16 DP*4 graphics card

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

