MIC-75GF10

MXM GPU Expansion Module for New AI Application with MIC-7 Series



Features

- Support NVIDIA MXM GPU with whole system fanless design
- Support up to 80W NVIDIA Quadro MXM 3.1 Type A/B form factor GPU
- 1 x HDMI and 3 x DisplayPort 1.4a display output
- Operating Temp. -10~50C
- Support 1Grms Op. vibration
- Dual front removable 2.5" storage bay for easy swap
- IP40 fanless ruggedized compact size design
- MIC-7 Series compatible

Introduction

MIC-75GF10 is born to support NVIDIA Quadro MXM GPU card. Work with MIC-7 series, the whole system fanless compact size design is the most ideal solution for space, noise and dust sensitive environment.

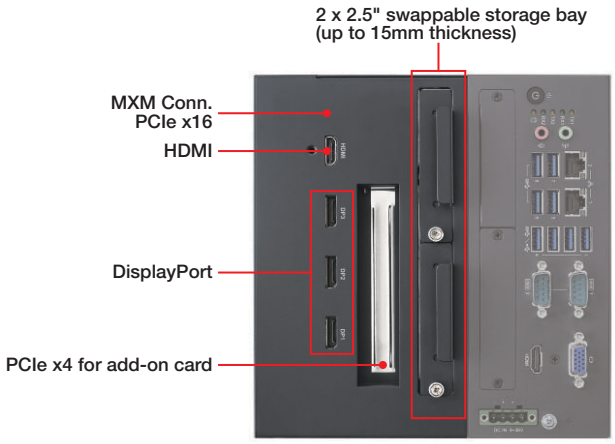
MIC-75GF10 supports Advantech SKY-MXM series NVIDIA Quadro MXM 3.1 Type A/B GPU and compatible to MIC-7 series high performance industrial fanless computer, enabling excellent CPU and GPU computing power for new AI application.

Specification

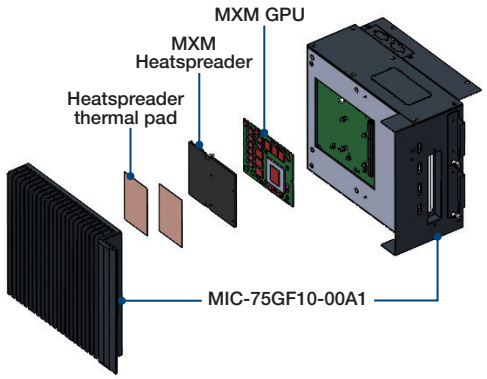
Expansion slot	1 x PCIe x4 and 1 x MXM 3.1 connector with PCIe x16 signal
Display	1 x HDMI (1920x1080), 3 x Display Port (DP 1.4a)
SATA Connector	1 x SATA Signal, 1 x SATA Power
Storage	2 x 2.5" swappable HDD/SSD storage bay
Power	MXM Connector: 80W, PCIe x4 slot: 25W
	Power consumption: Max. Load: 170W (test with 80W MXM GPU and MIC-770 V2 system with 35W CPU)*
	1 x 4-pin Conn. for add-on card ($12V_{DC}$, 5A)
Enviroment	Operating Temp.: T1000/A1000: -10 ~ 50 °C; RTX-3000/A2000: -10 ~ 40 °C; A500: -10 ~ 60 °C (35W CPU and industrial wide-temp. RAM/SSD)
	Vibration: With SSD: 1 Grms @ 5~500 Hz, randon, 1 hr/axis
	Shock: With SSD: 10G, IEC-68-2-27, half-sine wave, 11 ms duration
Mechanical	N.W.: 3.5 kg; G.W: 4 kg (MIC-75GF10 only, without MXM GPU and MXM heatspreader)
	Dimension (W x H x D): 113 x 192 x 230 mm

* Support 35W TDP CPU only.

Front View



Ordering Instruction



Note 1: Need to order MIC-75GF10-00A1, MXM GPU and MXM heatspreder.
Note 2: 2x heatspreader thermal pads are in accessory box by default. Type A MXM use 1x, Type B MXM use 2x.

All product specifications are subject to change without notice.

Ordering Information

Part Number	Description
MIC-75GF10-00A1	MXM GPU expansion module (1 x MXM, 1 x PCIe and 2 x removable 2.5" storage bay, 1 x HDMI, 3 x DP)

MXM GPU

MXM Model	Part Number	Description	MXM Heatspreader Part Number
RTX-3000	SKY-MXM-R3000-6HDA	Quadro RTX 3000 MXM 6GB Discrete mode Type B	98R1X300000
A2000	SKY-MXM-A2000-8SDA	Quadro A2000 MXM 8GB Discrete mode Type A	98R1X200000
2000A	SKY-MXM-2000A-8SDA	Quadro 2000 Ada MXM 8GB Discrete mode Type A	98R1X200000
T1000	SKY-MXM-T1000-4HDB	Quadro T1000 MXM 4GB Discrete mode Type A	98R1X100000
A500	SKY-MXM-A500-4SHA	Quadro A500 MXM 4GB MS Hybrid mode Type A	98R1X050000

Note 1: Please order corresponding heatspreader for MXM GPU.
Note 2: Please refer to MXM GPU datasheet for more details.

Packing List

Part Number	Description	Quantity
1990037002N000	MXM heatspreader thermal pad	2
1930007549-01	MXM GPU card screw	6
1960070545N006	Mounting bracket	2
1930007259-01	Screw for mounting bracket	4
20415GF000	MIC-75GF10 startup manual	1

Optional Accessories

Part Number	Description
96PSA-A230W24P4-3*	ADP A/D 100-240V 230W 24V C14 TERMINAL BLOCK 4P
1702002600	Power cord (USA) UL/CSA, 3-pin, 10A, 125V, 1.83M, 180 D
1700000237-31	Power Cord PSE 3P 12A 125V 183cm
1702002605	Power Cord (EU), 3-pin, 10A, 250V 1.83M, 90D

* Suggest to use for MIC-770 series with MIC-75GF10.

Mounting Type and Dimensions

Example: MIC-770 V3 + MIC-75GF10

W x H x D: 190 x 192 x 230 mm

Note: By using MIC-7500 and MIC-7900, width will be decreased by 4mm.

