MIC-75G20

GPU Expansion Module for Video AI Edge Computing with MIC-7 Series



Features

- Offering powerful GPU solution with NVIDIA 350W, 2.5-slot width, 334.5mm length GPU cards for new AI application
- Dual 24V_{DC} power inputs with reliable power and OCP solution for up to 700W maximum peak power currency
- Intelligent power status indicating LED for system and GPU card independently
- Flexible GPU card holders (R.O.C. Patent Pending), ensuring GPU card's stability and reliability
- Support up to 1Grms Op. vibration
- Support up to 40°C Op. temp. with 350W GPU and 4-port PoE card installed with PWM fan control for intelligent thermal management
- Dual front removable 2.5" storage bay for easy swap
- IP30 rating with fan filter, suitable for outdoor or industrial environment
- Compact size design

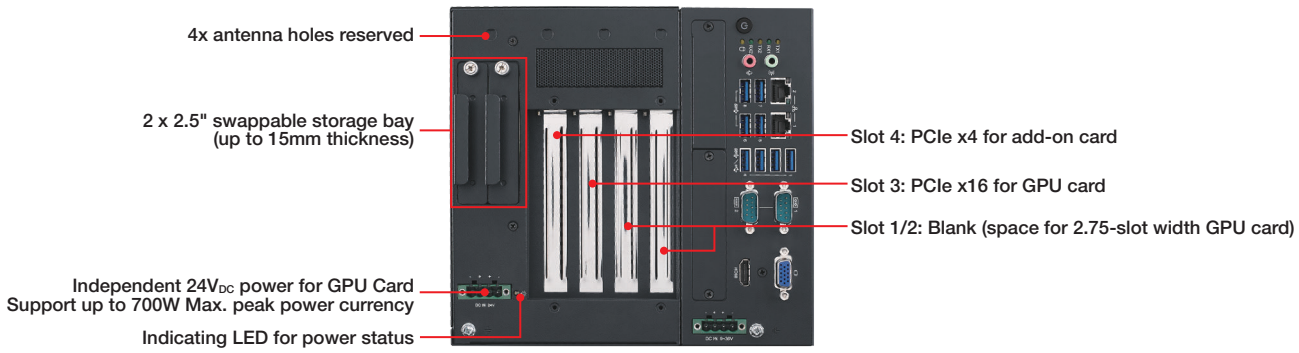
Introduction

MIC-75G20 supports NVIDIA 2.75-slot width high performance 350W triple fan based cards. Robust power design ensures MIC-7 systems and GPU card's reliability under high power consumption application. Suitable for Video AI Edge computing, 3D image processing and vision application.

Specification

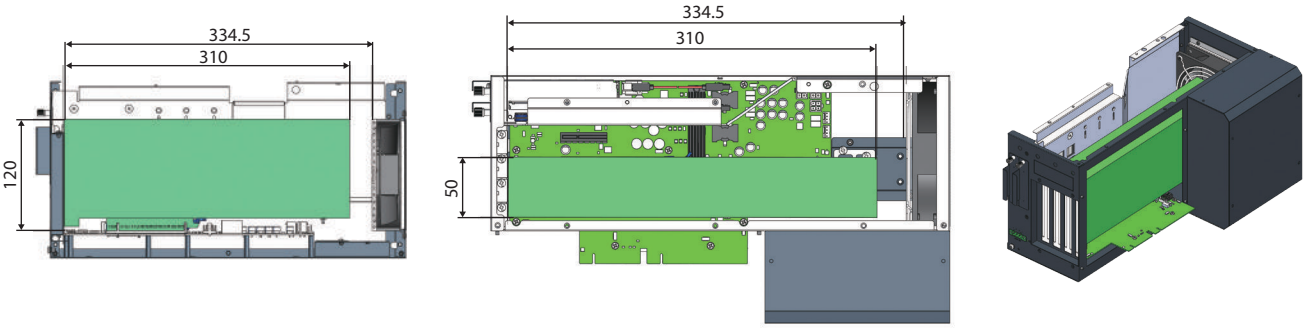
Expansion slot	Slot 1/2: Blank, Slot 3: PCIe x16, Slot 4: PCIe x4
SATA Connector	1 x SATA Signal, 1 x SATA Power
Storage	2 x 2.5" swappable HDD/SSD storage bay
Power	Input: Dual 24 V_{DC} (one on MIC-7000 system, one on MIC-75G20)
	Power consumption: Max. Load: 448W (tested with 350W GPU, PoE card and MIC-770 system with 35W CPU)
	Power solution supports up to maximum 700W (Tested with 350W GPU card's peak power consumption)
	2 x 6-pin Conn. for GPU card (12V_{DC}, 17A for each Conn.)
	1 x 4-pin Conn. for add-on card (12V_{DC}, 5A)
GPU Card Dimension	Thickness: 50 mm (2.5-slot width), Length: 334.5 mm, Height: 120 mm Support up to triple-fan fan GPU cards
LED	1x indicating LED for power status
Enviroment	Operating Temp.: -10~40 °C (35W CPU w/ 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	MIC-75G20 N.W. 3.5 kg; G.W.: 5.5 kg
	Dimension (W x H x D): 207 x192 x 385 mm
Fan	1x 12025 cooling fan embedded (4500 RPM, 145.4 CFM, Max. 62.5 dB)

Front View



All product specifications are subject to change without notice.

GPU Card Dimension Guide



Ordering Information

Part Number	COO	Description
MIC-75G20-10C1	China	GPU i-Module with 1 PCIe x16, 1x PCIe x4, 2x 2.5" swappable storage bay
MIC-75G20-10C1U	Taiwan	GPU i-Module with 1 PCIe x16, 1x PCIe x4, 2x 2.5" swappable storage bay

Packing List

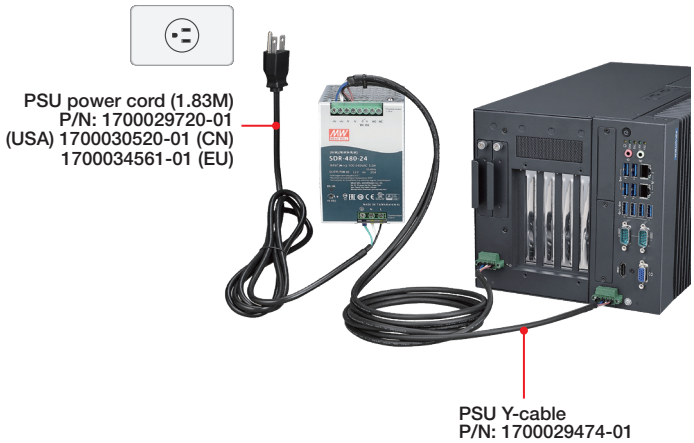
Part Number	Description	Quantity
1652003234	4-pin phoenix connector	2
1700003194	SATA cable (60cm)	1
1700024985-01	HDD BP power cable	1
1700034485-01	GPU power cable (6 to 6/8 Pin)	2
1960005359T00A	Mounting bracket (small)	1
1960094392N013	Mounting bracket (large)	1
1930007259-01	Screw for mounting bracket	4
20415G2012	MIC-75G20 Start-up manual	1

Optional Accessories

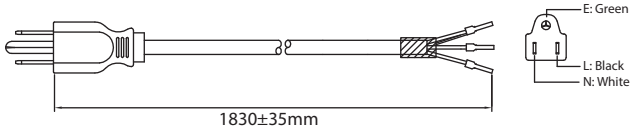
Part Number	Description
96PSD-A480W24-MS*	DIN RAIL PSU 100-240V 480W 24V (Peak power 720W, 3 Sec.)
1700029474-01	PSU Y-Cable, UL2464, 18AWG, 1.5M
1700029720-01	PSU power cord (USA), AC Conn., 3-pin, 10A, 125V, UL/CSA, 1.83M
1700030520-01	PSU power cord (CN), AC Conn., 3-pin, 10A, 250V, CCC, 1.5M
1700034561-01	M cable Type E 3P/TEMx3 80CM (EU)
1700022074-11	4-pin 12V$_{DC}$ power cable (40cm, for PoE card)

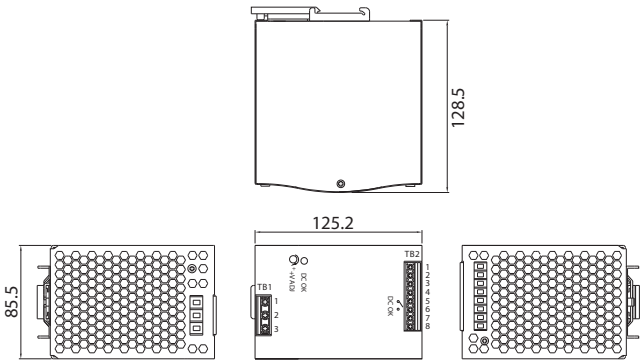
* Recommend to use for powering MIC-75G20 + MIC-7000.

Power Supply Cabling Guide



PSU power cord & Pin Definition (connect from AC to DC)





TB2 pin-out (connect from PSU DC to MIC)

Pin No.	Assignment
1, 2	DC OUTPUT+V
3, 4	DC OUTPUT-V
5, 6	Relay Contact
7, 8	NC

TB1 pin-out (connect from AC to PSU)

Pin No.	Assignment
1	FG ⏚
2	AC/N
3	AC/L

Y type cable

Connect from PSU to the MIC-7000 and MIC-75G20 via optional PSU Y-cable with 2x 4-pin phoenix connector (1652003234)

Mounting Type and Dimensions

Example: MIC-770 + MIC-75G20

W x H x D: 207 x 192 x 385 mm

