MIC-75G20

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

Features

- Offering powerful GPU solution with NVIDIA 250W, 2-slot width/285mm length GPU cards for new AI application
- Dual 24V_{DC} power inputs with reliable power and OCP solution for up to 600W maximum peak power currency
- Intelligent power status indicating LED for system and GPU card independently
- Versatile wall-mount, table-mount, suitable for any industrial environment deployed
- Dual front accessible storage bay for easy swap
- Up to 40°C op. temp., 1 Grms op. vibration
- IP30 rating with fan filter, suitable for outdoor or industrial environment
- Compact size design

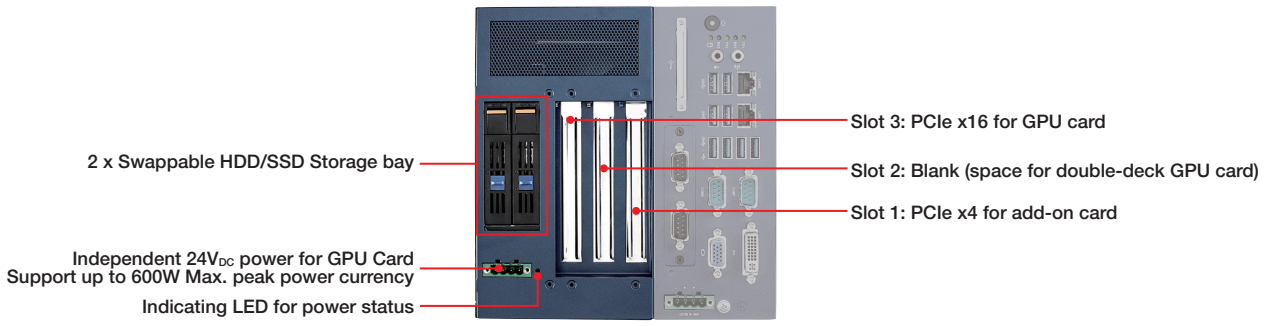
Introduction

MIC-75G20 supports NVIDIA double-deck high performance 250W 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.

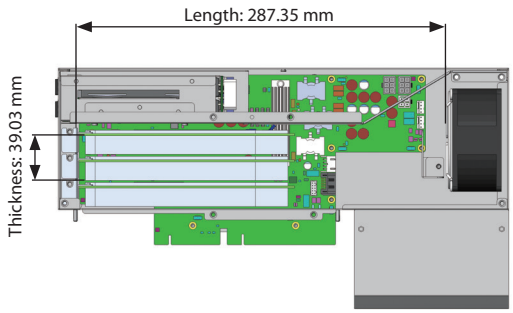
Specification

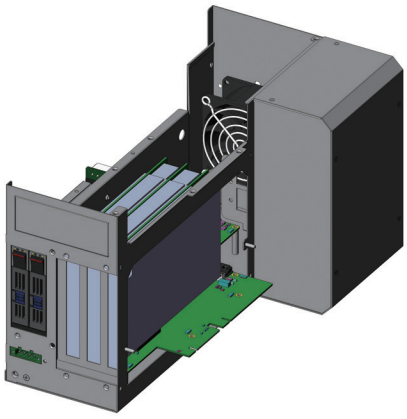
Expansion slot	Slot 1: PCIe x4, Slot 2: blank, Slot 3: PCIe x16
SATA Connector	1 x SATA Signal, 1 x SATA Power
Storage	2 x 2.5" swappable HDD/SSD storage bay
Power	Input: Dual 24 V_{DC} (one on MIC-7000 system, one on MIC-75G20)
	Power consumption: Typical: 334.63W (Tested with 250W GPU card with MIC-7700Q)
	Power solution supports up to maximum 600W (Tested with 250W 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: 39.03 mm (standard 2-slot), Length: 287.35 mm Support up to dual fan GPU cards
LED	1x indicating LED for power status
Enviroment	Operating Temp.: 0~40 °C (35W CPU w/ industrial 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. 2.99 kg; G.W.: 4.79 kg
	Dimension (W x H x D): 110 x 192 x 350 mm
Fan	1x 8025 cooling fan embedded (4500RPM, 57CFM, 46dB)

Front View



GPU Card Dimension Guide





Ordering Information

Part Number	Description
MIC-75G20-00A1	GPU card expansion i-Module with 1 PCIe x16, 1 PCIe x4, 2x 2.5" swappable storage bay

Packing List

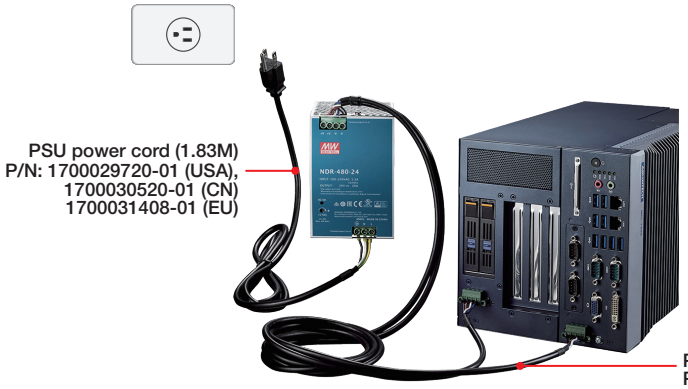
Part Number	Description	Quantity
1652003234	4-pin phoenix connector	2
1700017838	SATA cable (30cm)	1
1700020978-01	SATA cable (40cm)	1
1700024985-01	HDD BP power cable	1
1700023022-01	GPU power cable (6 to 6/8 Pin)	2
1960070543T001	Mounting bracket (small)	1
1960070545N001	Mounting bracket (large)	1
1930007259-01	Screw for mounting bracket	4
20415G2000	MIC-75G20 Start-up manual	1

Optional Accessories

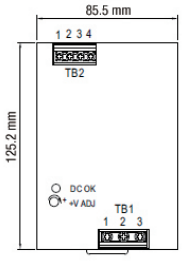
Part Number	Description
96PSD-A480W24-MN*	480W PSU
1700029474-01	PSU Y-Cable, UL2464, 18AWG, 1.5M
1700029720-01	PSU power cord (USA), AC Conn., 3-pin, 10A, 125V, UL/CSA, 1.83M
1700030520-01	PSU power cord (CN), AC Conn., 3-pin, 10A, 250V, CCC, 1.5M
1700031408-01	M cable conn 3P/G-TEM*3 80CM (EU)
1700022074-11	4-pin 12V_{DC} power cable (40cm, for PoE card)

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

Power Supply Cabling Guide



PSU pin-out



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

Pin No.	Assignment
1, 2	DC OUTPUT +V
3, 4	DC OUTPUT -V

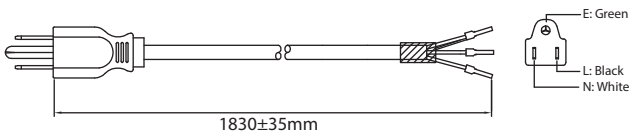
Y type cable

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

TB1 pin-out (connect from AC to PSU)

Pin No.	Assignment
1	FG ⏚
2	AC/N or DC-
3	AC/L or DC+

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

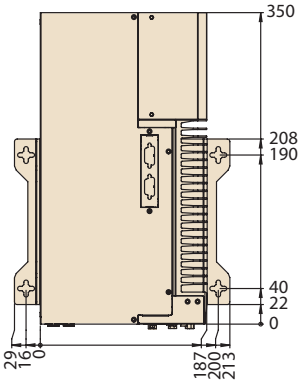


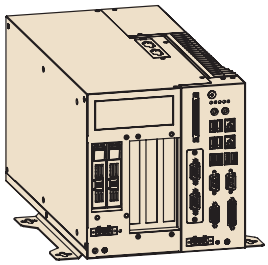
Mounting Type and Dimensions

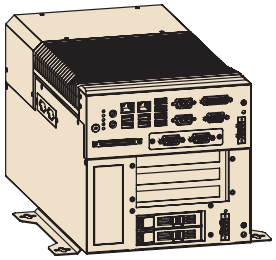
Example: MIC-7700 + MIC-75G20

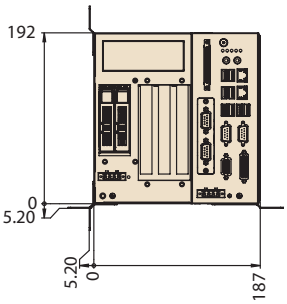
W x H x D: 187 x 192 x 350 mm

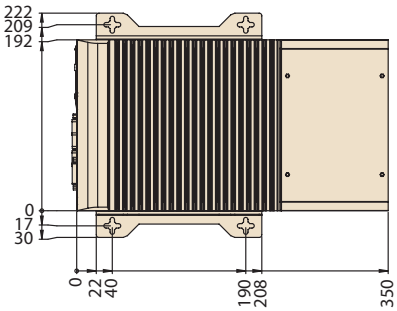
Note: By using MIC-7500 and MIC-7900, width will be decreased by 4mm.

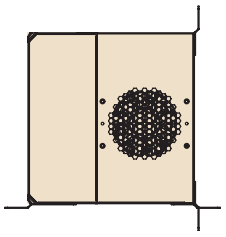












Note:
Suggest to reserve at least 25mm space from the rear side for fan air flow.