# MIC-75G20

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



## Features

- Offering powerful GPU solution with NVIDIA 350W, 2.75-slot width, 334.6mm length GPU cards for new AI application
- Dual 24$V_{DC}$ 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 60C 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

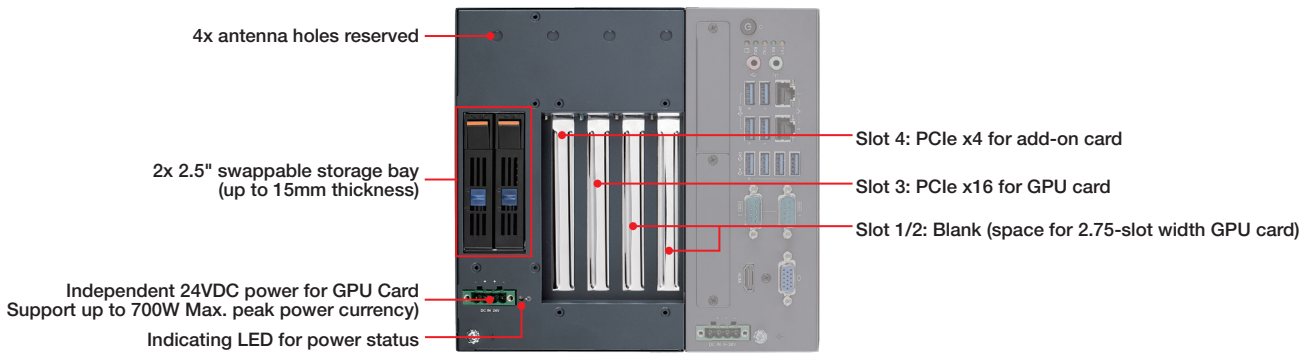
## Introduction

MIC-75G20 supports NVIDIA 2.75-slot width high performance 350W triple fan based cards. Robust power design secures 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

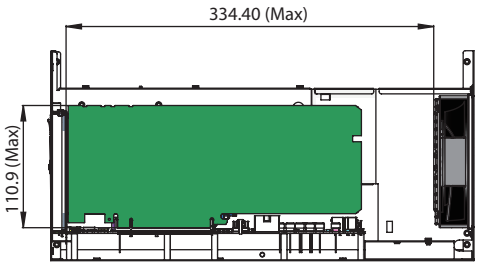
| | |
|---|---|
| Expansion slot | Slot 1/2: Blank, Slot 3: PCIe x16, Slot 4: PCIe x4 |
| SATA Connector | 1 x SATA Signal, 1 x SATA Power |
| Storage | 2 x 2.5" swappable HDD/SSD storage bay |
| Power | Input: Dual 24 $V_{DC}$ (one on MIC-7000 system, one on MIC-75G20) |
| | Power consumption: Max. Load: 448W (tested with 350W GPU, PoE card and MIC-770 system with 65W 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 (12$V_{DC}$, 17A for each Conn.) |
| | 1 x 4-pin Conn. for add-on card (12$V_{DC}$, 5A) |
| GPU Card Dimension | Thickness: 59.38 mm (2.75-slot width), Length: 334.6 mm, Height: 110.9 mm<br>Support up to triple-fan GPU cards |
| LED | 1x indicating LED for power status |
| Enviroment | Operating Temp.: -10~60 °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): 130 x192 x 385 mm |
| Fan | 1x 12025 cooling fan embedded (2200 RPM, 82 CFM, Max. 36.5 dB) |

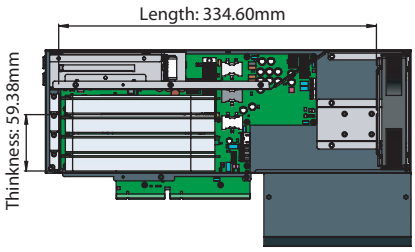
## Front View

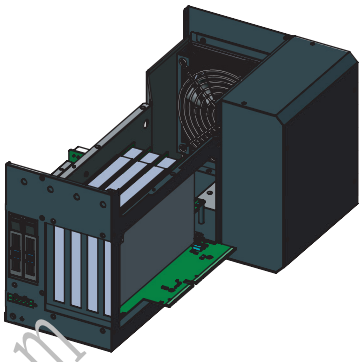



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## GPU Card Dimension Guide



## Ordering Information

| Part Number | Description |
|---|---|
| MIC-75G20-10B1 | 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 |
| 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 |
| 1960005359T00A | Mounting bracket (small) | 1 |
| 1960094392N013 | Mounting bracket (large) | 1 |
| 1930007259-01 | Screw for mounting bracket | 4 |
| 20415G2010 | MIC-75G20 Start-up manual | 1 |

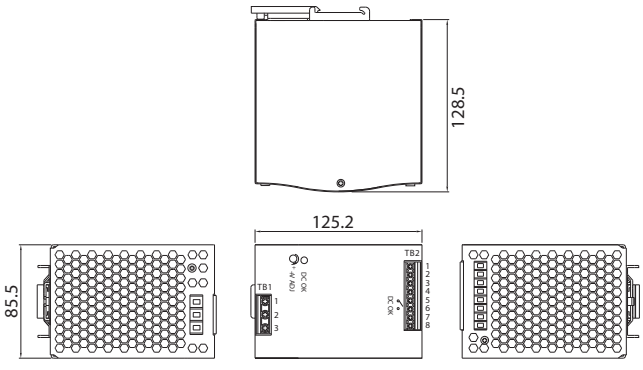
## Optional Accessories

| 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) |

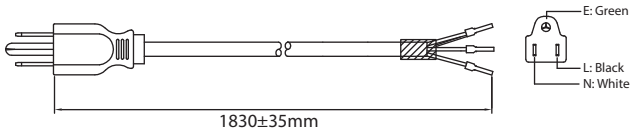
* Recommend to use for powering MIC-75G20 + MIC-7000.

## 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)

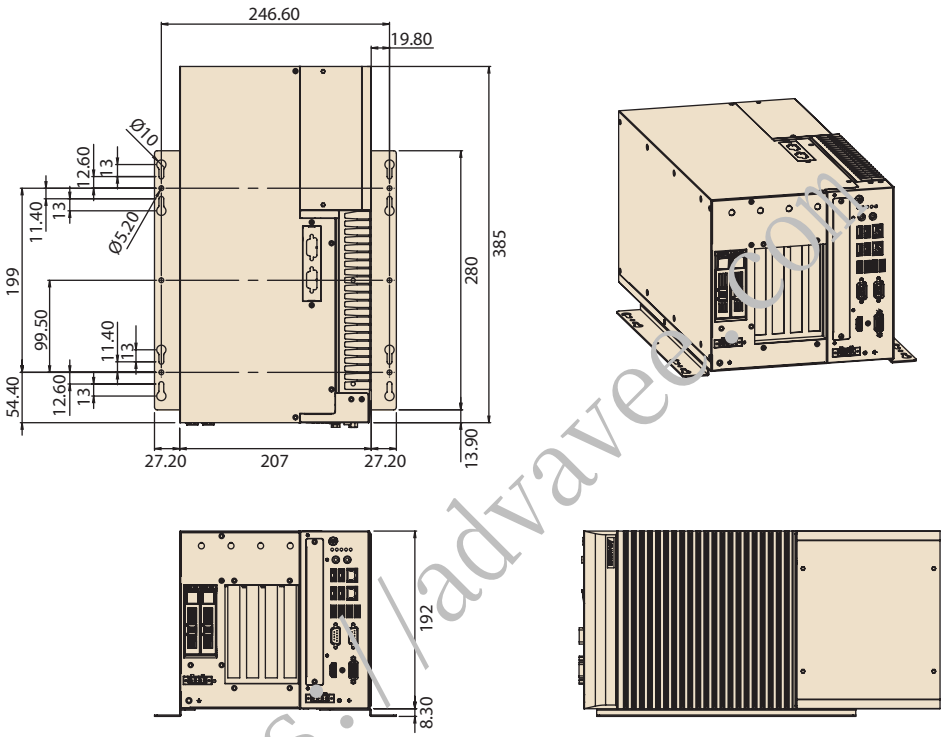
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## Mounting Type and Dimensions

**Example: MIC-770 + MIC-75G20**

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

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




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