# MIC-75G30

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



## Features

- Offering powerful GPU solution with dual NVIDIA 350W, 3/2.5-slot width/322mm length GPU cards for new AI application
- Triple 24VDC power inputs, provide independent power for GPU cards and MIC-7 system
- Intelligent power status indicating LED for system and GPU card independently
- Ruggedized design to sustain dual GPU cards with 1 Grms Op. vibration validation
- Dual front removable 2.5" storage bay for easy swap
- Support up to 35°C operating temperature
- IP30 rating with fan filter, suitable for outdoor or industrial environment
- Compact size design

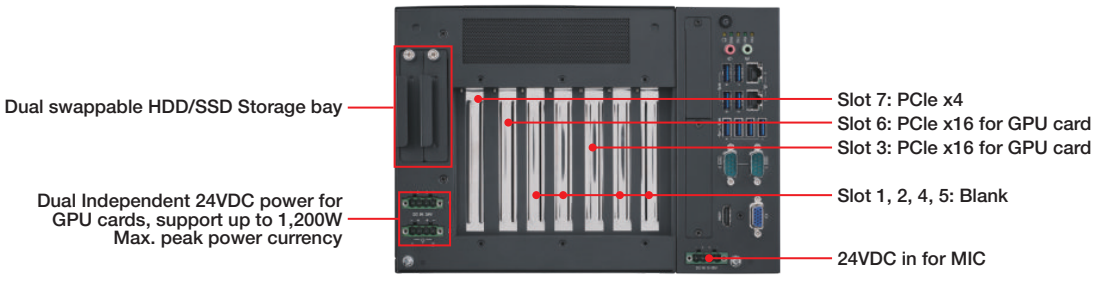
## Introduction

MIC-75G30 supports up to dual NVIDIA high performance 350W 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:** Blank<br>**Slot 2:** Blank<br>**Slot 3:** PCIe x16 (signal PCIe x8) for GPU card<br>**Slot 4:** Blank<br>**Slot 5:** Blank<br>**Slot 6:** PCIe x16 (signal PCIe x8) for GPU card<br>**Slot 7:** PCIe x4 |
| SATA Connector | 1 x SATA Signal, 1 x SATA Power |
| Storage | 2 x 2.5" swappable HDD/SSD storage bay |
| Power | Input: Triple 24 $V_{DC}$ (one on MIC-770 system, two on MIC-75G30 for dual 350W GPU cards) |
| | Power consumption: Typical: 1000W (Tested with dual 350W GPU card with MIC-770V3W, 35W CPU and 4-port PoE cards) |
| | Power solution supports up to maximum 1,200W (Tested with dual 350W GPU card's peak power consumption) |
| | 4 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: 60 mm (3-slot) / 50 mm (2-slot), Length: 322 mm, Height: 120 mm<br>Support up to triple-fan GPU cards |
| LED | Indicator LED for power status |
| Enviroment | Operating Temp.: 0~35 °C (35W CPU w/ industrial SSD), with 0.7m/sec air flow) |
| | 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-75G30 N.W. 5 kg; G.W.: 7 kg |
| | Dimension (W x H x D): 280 x 192 x 385 mm |
| Fan | 1x 12038 cooling fan embedded (8300 RPM, 238 CFM, Max. 79.3 dB) |

## Front View



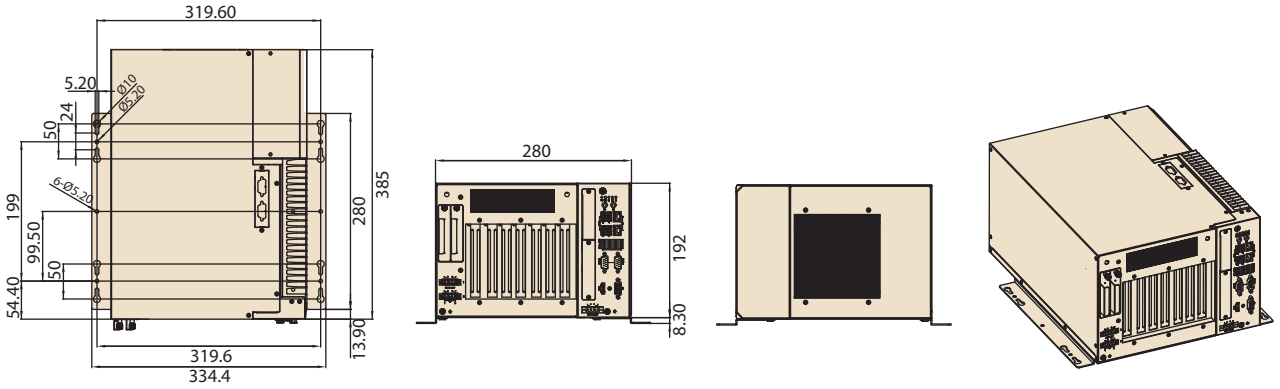



All product specifications are subject to change without notice.

## Mounting Type and Dimensions

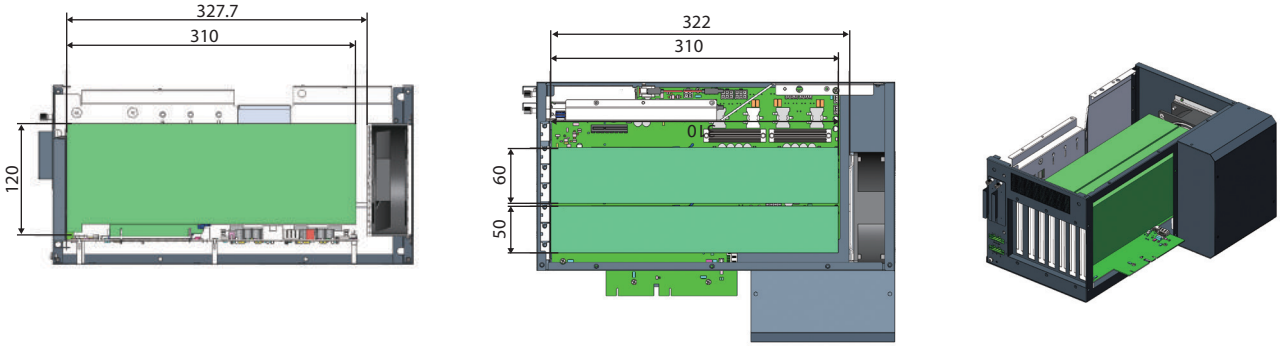
**Example: MIC-770 + MIC-75G30**

W x H x D: 280 x 192 x 385 mm mm




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

## GPU Card Dimension Guide




## Ordering Information

| Part Number | Description |
|---|---|
| MIC-75G30-00C1* | Dual GPU expansion i-Module with 2x PCIe x16 slots (signal PCIe x8), 1x PCIe x4, dual 2.5" swappable storage bay |

* MIC-7 series H SKU does not support MIC-75G30. Please refer to i-Module datasheet for compatibility matrix.

## Packing List

| Part Number | Description | Quantity |
|---|---|---|
| 1652003234 | 4-pin phoenix connector | 2 |
| 1700003194 | SATA cable (60cm) | 2 |
| 1700024985-01 | HDD BP power cable | 1 |
| 1700034485-01 | GPU power cable (6 to 6/8 Pin) | 4 |
| 1960094390N000 | GPU bracket | 2 |
| 1930005673-11 | Screw for GPU bracket | 10 |
| 1990000505T000 | Shock proof rubber | 5 |
| 1960005359T00A | Mounting bracket (L) | 1 |
| 1960094392N013 | Mounting bracket (R) | 1 |
| 1930007259-01 | Screw for mounting bracket | 6 |
| 20415G3003 | MIC-75G30 Start-up manual | 1 |

## Optional Accessories

| Part Number | Description |
|---|---|
| XMIC-HRPG-1000-24* | 100-240V, 1008W, 24V PSU |
| 1700031413-01 | PSU DC-DC power cable, 1M |
| 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 12$V_{DC}$ power cable (40cm, for PoE card) |

* Recommend to use for powering MIC-75G30 + MIC-7000.

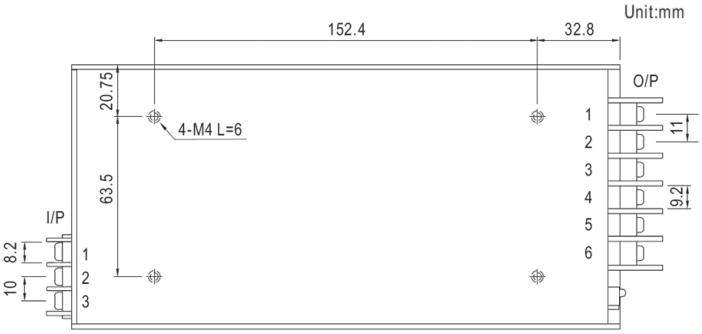
# Power Supply Cabling Guide

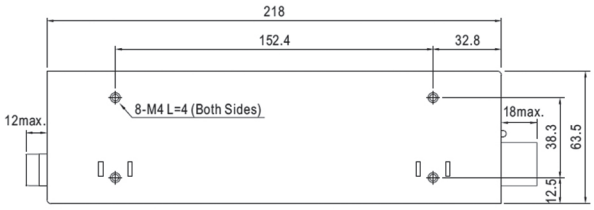


AC-DC PSU power cord (1.83M)
P/N: 1700029720-01 (USA)
1700030520-01 (CN)
1700031408-01 (EU))

DC-DC PSU power cord: 1700031413-01

# PSU pin-out and dimension (unit: mm)




AC Input Terminal Pin No. Assignment

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

DC Output Terminal Pin No. Assignment

| Pin No. | Assignment |
|---|---|
| 1~3 | +V |
| 4~6 | -V |

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

