MIC-78G30

GPU Expansion Module for High-Performance Edge AI Computing with MIC-78 Series

Features

- Built for next-generation computing, supporting PCIe Gen5 GPU cards with up to a 3.5-slot design, optimized for triple-fan GPU designs
- Offering powerful GPU solution with NVIDIA 600W, 3.5-slot width, 388mm length GPU cards for AI and edge computing applications
- Triple 24V_{DC} power inputs, provide independent power for GPU cards and MIC-78 system
- Flexible GPU card holders ensuring GPU card's stability and reliability
- Supports up to 1 Grms operational vibration, ensuring system stability in harsh environments
- Support up to 35°C Op. temp. with 600W GPU card installed with PWM fan control for intelligent thermal management
- Dual front-accessible 2.5" storage bays, enabling easy maintenance
- Compact size design

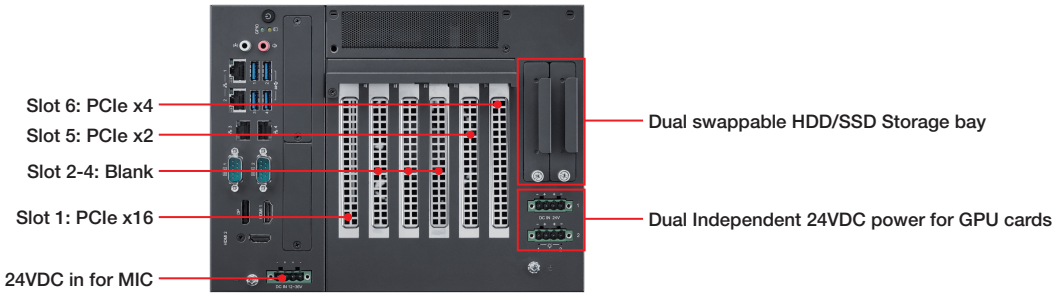
Introduction

MIC-78G30 supports NVIDIA 3.5-slot width high performance 600W triple fan based cards. Robust power design ensures MIC-78 systems and GPU card's reliability under high power consumption application. Ideal for High-Performance Edge AI computing, LLM, 3D image processing and vision application.

Specification

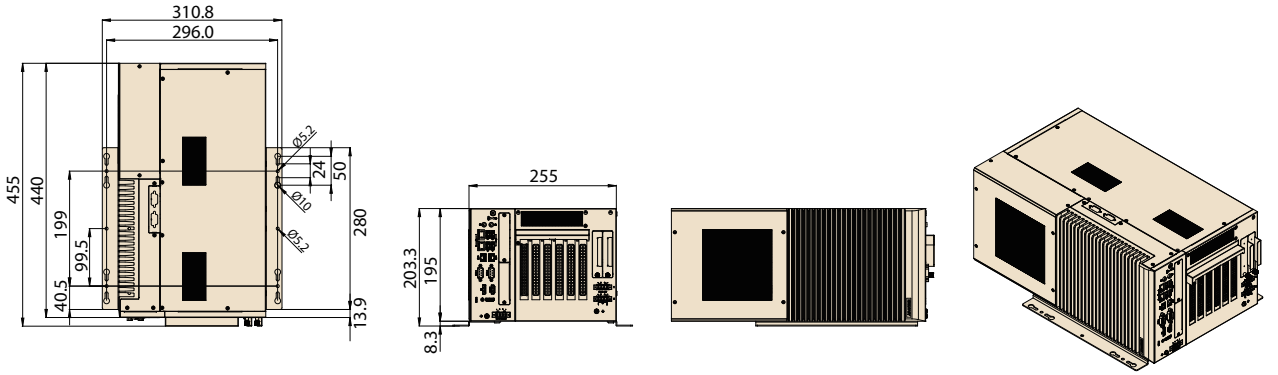
Expansion slot	Slot 1: PCIe x16, Slot 2-4: Blank, Slot 5: PCIe x2, Slot 6: PCIe x4
SATA Connector	2 x SATA Signal, 2 x SATA Power
Storage	2 x 2.5" swappable HDD/SSD storage bay
Power	Input: Triple 24 V_{DC} (one on MIC-78 system, two on MIC-78G30 for 600W GPU cards)
	Power consumption: Typical: 872W (Tested with 600W GPU card with MIC-780W, 65W CPU, 4-port PoE and 4-port USB cards)
	1 x 12VHPWR(12+4 pin) conn. for GPU card (support up to 600W)
	1 x 4-pin Conn. for add-on card (12V_{DC}, 5A)
GPU Card Dimension	Thickness: 71 mm (3.5-slot), Length: 388 mm, Height: 138 mm 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-78G30 N.W. 5 kg; G.W.: 7 kg
	Dimension (W x H x D): 255 x 195 x 440 mm
Fan	1x 12038 cooling fan embedded (8300 RPM, 238 CFM, Max. 79.3 dB)

Front View



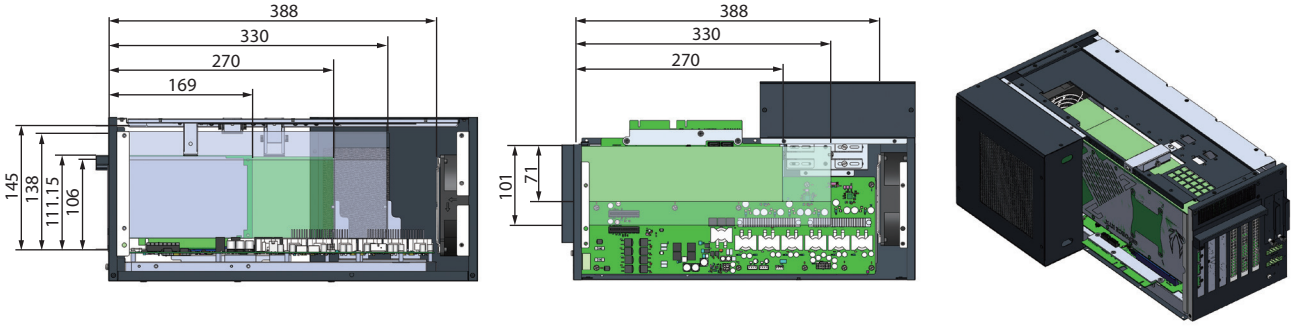
Mounting Type and Dimensions

Example: MIC-780 + MIC-78G30
W x H x D: 255 x 195 x 440 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-78G30-00A1*	MIC-78 GPU i-Module with 1 PCIe x16, 1 x PCIe x2, 1x PCIe x4, 2x 2.5" swappable storage bay

* MIC-780 series H SKU does not support PCIe x 2 signal(PCIe x4 slot). Please refer to i-Module datasheet for compatibility matrix.

Packing List

Part Number	Description	Quantity
1652003234	4-pin phoenix connector	2
1700036470-01	SATA cable	2
1700035522-01	GPU power cable (12VHPWR to 12VHPWR)	1
1960005359T00A	Mounting bracket (L)	1
1960094392N101	Mounting bracket (R)	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 $12V_{DC}$ power cable (40cm, for PoE card)

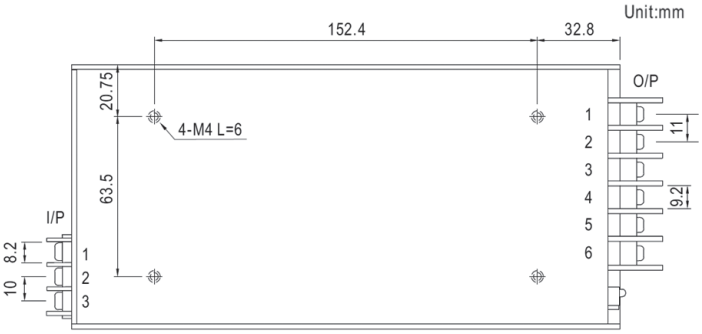
* Recommend to use for powering MIC-78G30 + MIC-78 series system.

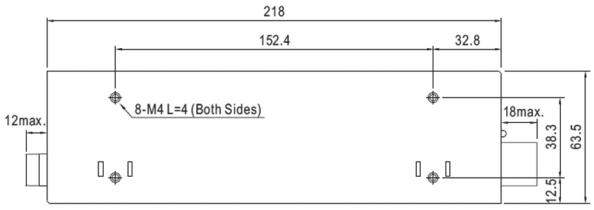
Power Supply Cabling Guide

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)