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

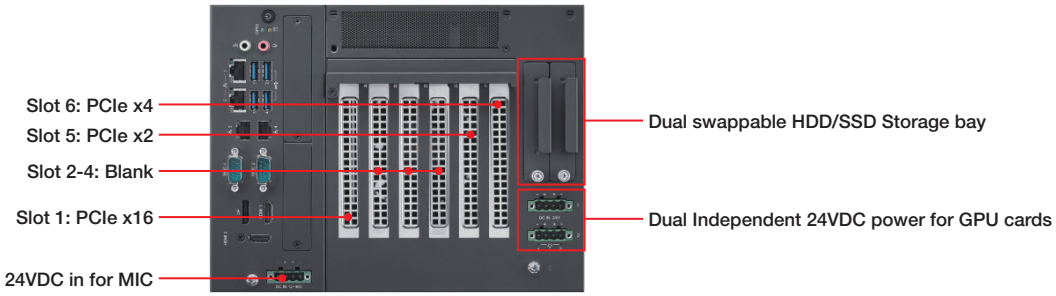
Introduction

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)

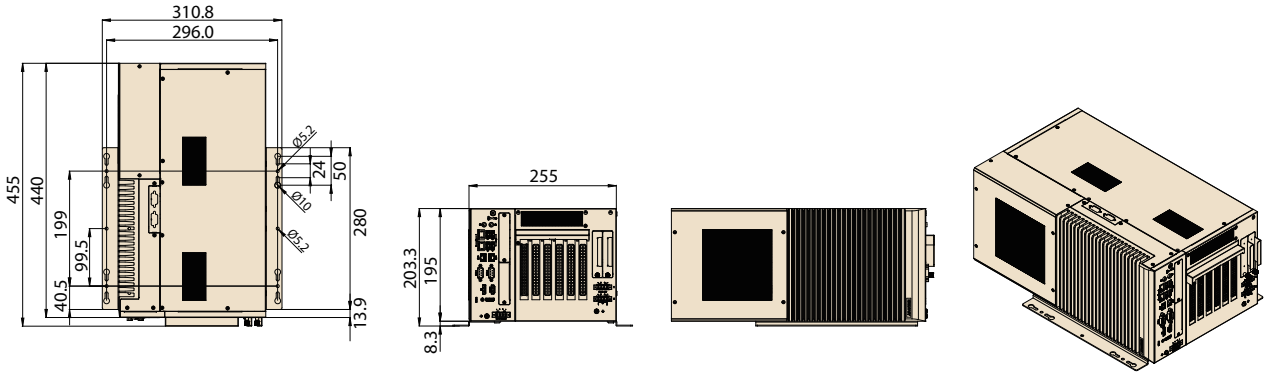
Front View



All product specifications are subject to change without notice.

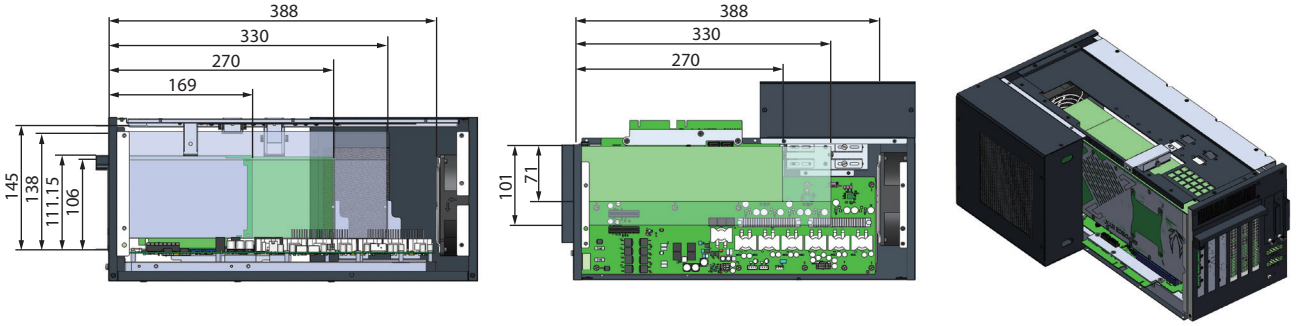
Mounting Type and Dimensions

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.

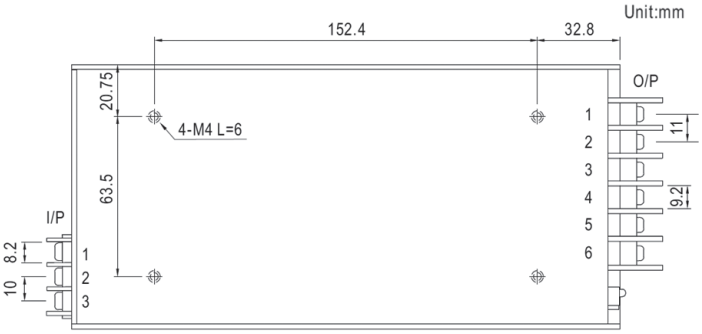
Power Supply Cabling Guide

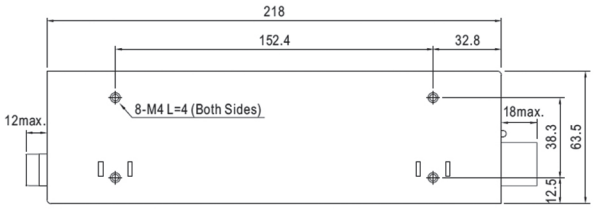


AC-DC PSU power cord (1.83M)
P/N: 1700029720-01 (USA)
1700030520-01 (CN)
1700031408-01 (EU))

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)

