MIC-78MG30

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-slot design, optimized for dual-fan GPU designs
- Offering powerful GPU solution with NVIDIA 250W, 3-slot width, 290mm length GPU cards for AI and edge computing applications
- 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 250W GPU card installed with PWM fan control for intelligent thermal management
- Dual front-accessible 2.5" storage bays, enabling easy maintenance
- IP30 rating with fan filter, suitable for outdoor or industrial environment
- Compact size design

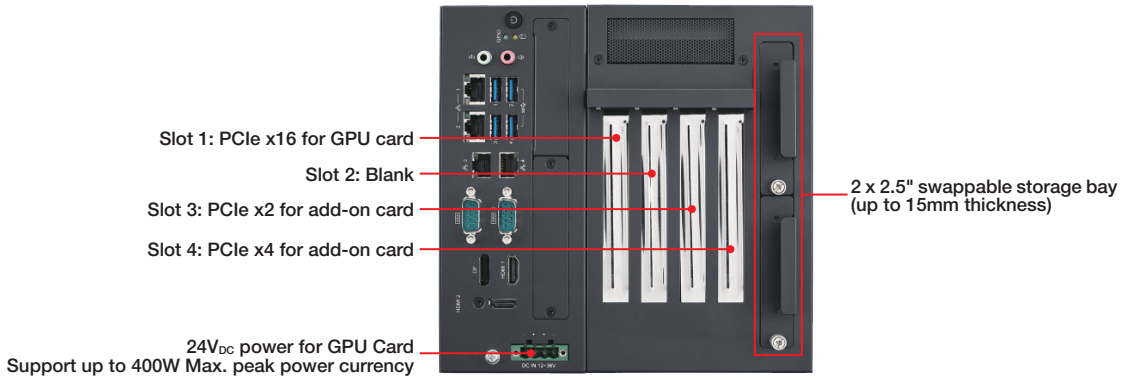
Introduction

MIC-78MG30 supports NVIDIA 3-slot width high performance 250W dual 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, 3D image processing and vision application.

Specification

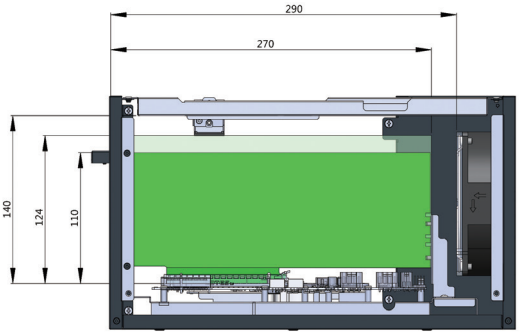
Expansion slot	Slot 1: PCIe x16, Slot 2: Blank, Slot 3: PCIe x2, Slot 4: PCIe x4
SATA Connector	2 x SATA Signal, 2 x SATA Power
Storage	2 x 2.5" swappable HDD/SSD storage bay
Power	Input: 24 V_{DC} (On MIC-78 series system)
	Power consumption: Max. Load: 448W (tested with 250W GPU and MIC-780 system with 35W CPU)
	Power solution supports up to maximum 400W (Tested with 250W GPU card's peak power consumption)
	2 x 8-pin Conn. for GPU card ($12V_{DC}$, 36A for each Conn.)
	1 x 4-pin Conn. for add-on card ($12V_{DC}$, 5A)
GPU Card Dimension	Thickness: 59 mm (3-slot width), Length: 290 mm, Height: 124 mm Support dual fan GPU cards
Enviroment	Operating Temp.: -20~35 °C (65W 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-78MG30 N.W. 3 kg; G.W.: 4.5 kg
	Dimension (W x H x D): 200 x 195 x 300 mm
Fan	1x 12038 cooling fan embedded (8300 RPM, 238 CFM, Max. 79.3 dB)

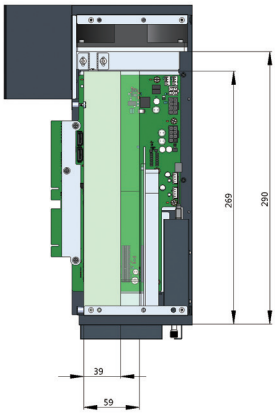
Front View

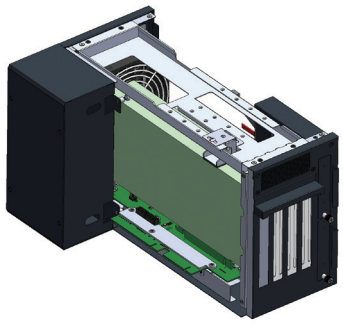


All product specifications are subject to change without notice.

GPU Card Dimension Guide







Ordering Information

Part Number	Description
MIC-78MG30-00A1	MIC-78 GPU i-Module with 1 PCIe x16, 1 x PCIe x2, 1x PCIe x4, 2x 2.5" swappable storage bay

Packing List

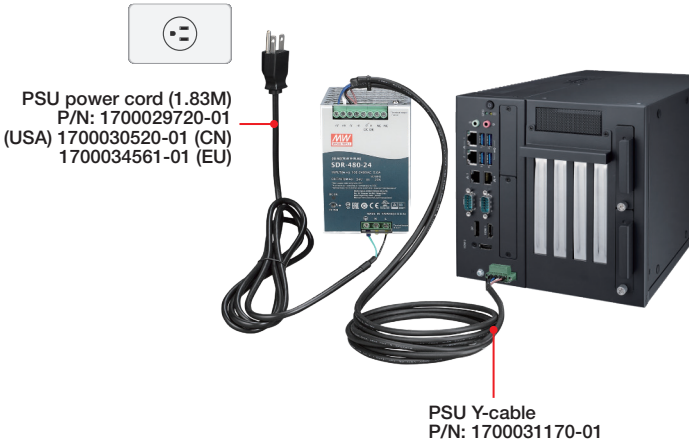
Part Number	Description	Quantity
1652003234	4-pin phoenix connector	2
1700036470-01	SATA cable (30cm)	2
1700024985-01	HDD BP power cable	1
1700034485-01	GPU power cable (6 to 6/8 Pin)	2
1960005359T00A	Mounting bracket (Left)	1
1960094392N101	Mounting bracket (Right)	1
1930007259-01	Screw for mounting bracket	4

Optional Accessories

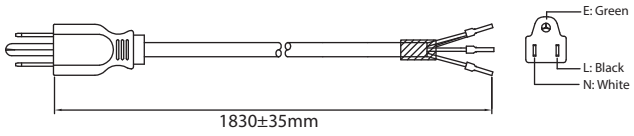
Part Number	Description
96PSD-A480W24-MS*	DIN RAIL PSU 100-240V 480W 24V (Peak power 720W, 3 Sec.)
1700031170-01	DC-DC power cord, A cable TEM*4/TEM*4 UL2464 18AWG 150cm
1700029720-01	PSU power cord (USA), AC Conn., 3-pin, 10A, 125V, UL/CSA, 1.83M
1700030520-01	PSU power cord (CN), AC Conn., 3-pin, 10A, 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)

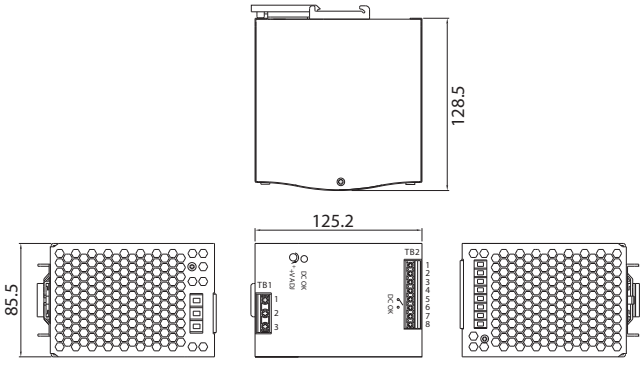
* Recommend to use for powering MIC-75G20 + MIC-7000.

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)

Mounting Type and Dimensions

Unit: mm

Example: MIC-780 + MIC-78MG30
W x H x D: 200 x 195 x 340 mm

