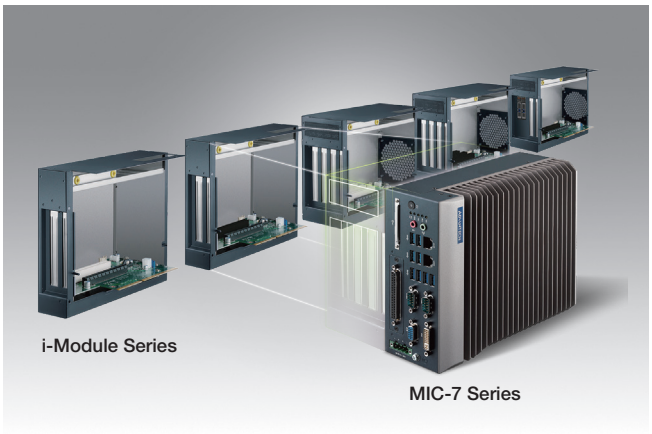
i-Module Series

Expansion Module for MIC-770 Series



Features

- Flexible expansion via PCIe/PCI slot
- MIC-770 series compatible
- Optional smart fan for thermal optimization
- Provide additional 12Vdc power source for add-on card
- Maximum 85W for add-on card power consumption
- Support 350W power consumption and MXM GPU card by GPU i-Module
- Expansion for 2.5" and 3.5" HDD/SSD bay
- 2 x 2.5" Swappable HDD/SSD supported

Introduction

MIC i-Module Series provide flexible expansion function for MIC-770 Series system. MIC i-Module Series support PCIe/PCI I/F add-on card, such as frame grabber, GPU and motion control cards, etc.. Except for the power from PCIe/PCI slot, i-Module reserves additional 12VDC power via the on-board connector for cards that need more power. To better control over the heat generated from add-on cards, optional system fans are supported with intelligent Smart Fan feature for better thermal management. With additional HDD/SDD bays in i-Module, customer can have more rooms for massive data storage. Removable storage bays are also supported.

Compatible Table

MIC-7 System \ i-Module		1-slot	2-slot			3-slot	4-slot	
		MIC-75M10	MIC-75M20	MIC-75M20-01	MIC-75M11	MIC-75M40-01	MIC-75M40	MIC-75M13
								
MIC-7700	Q SKU	✓	✓	✓	✓	–	✓	✓
	H SKU	✓	✓	–	✓	–	–	✓
MIC-770 V1	Q SKU	✓	✓	✓	✓	–	✓	✓
	H SKU	✓	✓	–	✓	–	–	✓
MIC-770 V2	W SKU	✓	✓	✓	✓	–	✓	✓
	H SKU	✓	✓	–	✓	–	–	✓
MIC-770 V3	W SKU	✓	✓	✓	✓	✓	–	✓
	H SKU	✓	✓	–	✓	–	–	✓

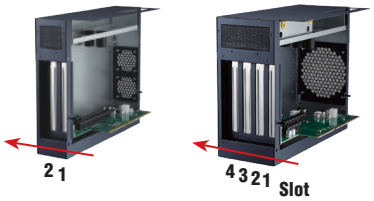
MIC-7 System \ i-Module		Featured						
		MIC-75S20	MIC-75S20-01	MIC-75G20	MIC-75G30	MIC-75GF10	MIC-75S00	98R17520301*
								
MIC-7700	Q SKU	✓	✓	✓	✓	✓	✓	✓
	H SKU	✓	✓	✓	–	✓	–	–
MIC-770 V1	Q SKU	✓	✓	✓	✓	✓	✓	✓
	H SKU	✓	✓	✓	–	✓	✓	✓
MIC-770 V2	W SKU	✓	✓	✓	✓	✓	✓	✓
	H SKU	✓	✓	✓	–	✓	✓	✓
MIC-770 V3	W SKU	✓	✓	✓	✓	✓	✓	✓
	H SKU	✓	✓	✓	–	✓	✓	✓

* 3.5" HDD not included

All product specifications are subject to change without notice.

Selection Table

i-Module slot number starts from the inner side, as the image on the right.

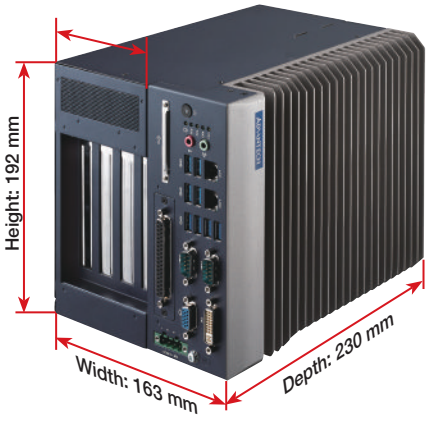


i-Module	MIC-75M10	MIC-75M11	MIC-75M20	MIC-75M20-01	MIC-75M40	MIC-75M40-01	MIC-75M13	MIC-75S20	MIC-75S20-01	MIC-75G20	MIC-75G30	MIC-75GF10	MIC-75S00	98R17520301
Slot 1	PCIe x16	PCIe x16	PCIe x4	PCIe x8	PCIe x4	PCIe x4	PCIe x16	PCIe x16	PCIe x4	–	–	–	–	–
Slot 2	–	PCI	PCIe x16	PCIe x8	PCIe x8	PCIe x8	PCI	PCIe x4	PCIe x16	–	PCIe x16 (Signal x8)	PCIe x4	–	–
Slot 3	–	–	–	–	PCIe x4	PCIe x4	PCI	–	–	PCIe x16	–	PCIe x16 for MXM	–	–
Slot 4	–	–	–	–	PCIe x4	–	PCI	–	–	PCIe x4	PCIe x16 (Signal x8)	–	–	–
Slot 5	–	–	–	–	–	–	–	–	–	–	PCIe x4	–	–	–
SATA Port	–	1											–	–
SATA PWR	–	1											–	–
2.5" HDD/SSD Bay	–	1*			2			2 x Swappable + 2 x Internal	2 x Swappable + 2 x Internal	2 x Swappable	2 x Swappable	2 x Swappable	2 x Swappable	–
3.5" HDD Bay														2
N.W. (kg)	0.64	0.87			1.16			1.60	1.60	2.99	5	3.5	2	0.8
G.W. (kg)	1.71	2.02			2.47			2.98	2.98	4.79	7	5	3	2
i-Module (W x H x D)	24 x 192 x 230	50 x 192 x 230			90 x 192 x 230					130 x192 x 385	207 x 192 x 384	113 x 192 x 230	27 x 192 x 230	42 x 192 x 230
MIC-7300/7500/ 7900 + i-Module (W x H x D)	97 x 192 x 230	123 x 192 x 230			163 x 192 x 230					203 x 192 x 385	280 x 192 x 385	187 x 192 x 230	100 x 192 x 230	115 x 192 x 230
MIC-77X + i-Module (W x H x D)	101 x 192 x 230	127 x 192 x 230			167 x 192 x 230					207 x 192 x 385	284 x 192 x 385	190 x 192 x 230	104 x 192 x 230	119 x 192 x 230
System Fan	–	98R1752000E (Optional)**			98R1751300E (Optional)**					Embedded	Embedded	–	–	–
$12V_{DC}$ Conn	1												–	–
$12V_{DC}$ Conn. for GPU	–									2	4	–	–	–
PCI/PCIe Card Max. Length (with fan)	190.2 mm				184.75 mm					334.6 mm	334.6 mm	–	–	–
PCI/PCIe Card Max. Length (without fan)	210.4 mm									–	–	210.4 mm	–	–

* Need to order 98R1752010E (2.5" HDD/SSD kit for 2-slot i-Module)
** Suggest to add optional system fan if power consumption of add-on card is more than **45W** for better thermal management.

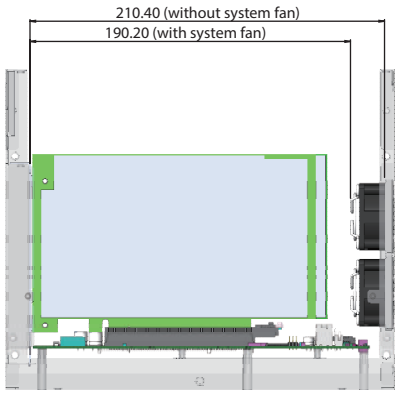
Dimension Guide

i-Module Width: 90 mm

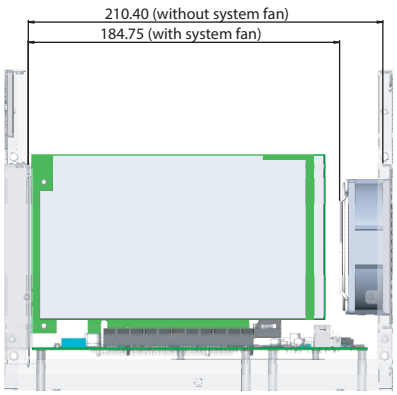


Example: MIC-7500 + MIC-75M40
Using MIC-77xx, width will be increased by 4mm.

i-Module Add-on card Dimension Guide

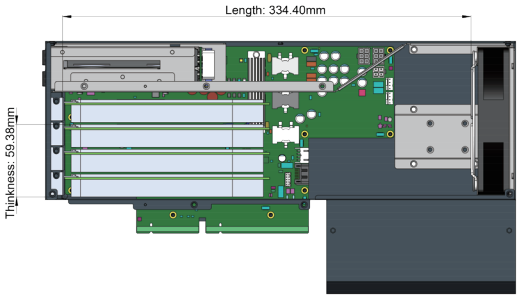


2-slot i-Module

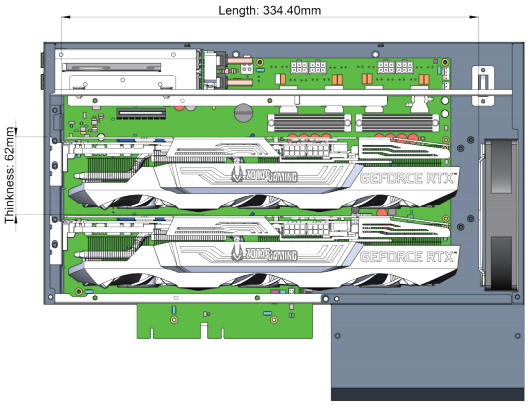


4-slot i-Module

MIC-75G20 GPU Dimension Guide



MIC-75G30 GPU Dimension Guide



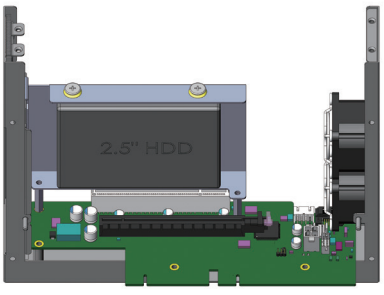
HDD/SSD Support Table

Every MIC-7 Series can support one HDD/SSD bay in system. With i-Module added, the total 2.5" HDD/SSD bay quantity as below.

MIC-7 Series		MIC-7700		MIC-770 V1		MIC-770 V2		MIC-770 V3	
		MIC-7700Q	MIC-7700H	MIC-770Q	MIC-770H	MIC-770W	MIC-770H	MIC-770W	MIC-770H
System SATA port count		3	1	3	2	3	2	3	2
2.5" HDD/SSD in MIC		1							
Total 2.5" HDD/SSD with i-Module added	MIC-75M10	1							
	MIC-75M11*	1							
	MIC-75M20*	1							
	MIC-75M20-01*	1	-	1	-	1	-	1	-
	MIC-75M40	3	-	3	-	3	-	-	-
	MIC-75M40-01	-	-	-	-	-	-	3	-
	MIC-75M13	3	2	3	3	3	3	3	3
	MIC-75S20	4	2	4	3	4	3	4	3
	MIC-75G20	3	2	3	3	3	3	3	3
	MIC-75G30	3	2	3	-	3	-	3	-
3.5" HDD with i-Module	98R17520301	2	-	2	2	2	2	2	2

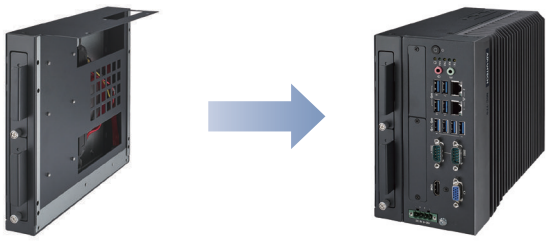
* Can order 98R1752010E to install **2nd** 2.5" HDD/SSD.
Note: i-Module BUS has only one channel SATA signal between i-Module and MIC-7 system.

2.5" HDD/SSD kit for 2-slot i-Module



Ordering information: 98R1752010E
Supportable i-Module: MIC-75M20, MIC-75M20-01, MIC-75M11
Limitation: Slot 2 will be occupied
Support up to 15mm 2.5" HDD/SSD

2 x Removable 2.5" Storage kit



Supportable system: MIC-7700Q, MIC-770 V1, MIC-770 V1/V2/V3
Ordering information: MIC-75S00-00A1
Support up to 15mm 2.5" HDD/SSD

Example: Assembled with MIC-770

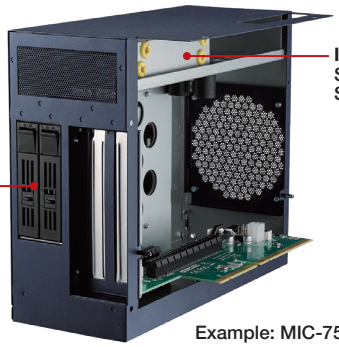
2 x 3.5" HDD Storage kit



Ordering Information: 98R17520301
Supportable system: MIC-7700Q, MIC-770 V1/V2/V3

Example: Assembled with MIC-770

2.5" HDD/SSD Thickness Guide



Internal HDD/SSD
Supportable i-Module: MIC-75M40, MIC-75M13, MIC-75S20
Support 1x 9.6mm + 1x 15mm, or 2x 9.6mm 2.5" HDD/SSD

Swappable HDD/SSD
Supportable i-Module: MIC-75S20, MIC-75G20, MIC-75G30
Support up to 15mm 2.5" HDD/SSD

Example: MIC-75S20

Optional i-Modules*

Part Number	COO	Description
MIC-75M10-00A2	China	1-slot expansion module (1 x PCIe)
MIC-75M11-00B1	China	2-slot expansion module (1 x PCIe and 1 x PCI slots)
MIC-75M13-00B1	China	4-slot expansion module (1 x PCIe and 3 x PCI slots)
MIC-75M20-00C1	China	2-slot expansion module (2 x PCIe slots)
MIC-75M20-01A2	China	2-slot expansion module (2 x PCIe slots)
MIC-75M40-00A2	China	4-slot expansion module (4 x PCIe slots)
MIC-75M40-01A2	China	3-slot expansion module (3 x PCIe slots)
MIC-75G20-10C1	China	GPU card expansion module (2 x PCIe and 2 x removable 2.5" storage bay)
MIC-75G20-10C1U	Taiwan	GPU card expansion module (2 x PCIe and 2 x removable
MIC-75G30-00C1	China	Dual GPU card expansion module (3 x PCIe and 2 x removable 2.5" storage bay)
MIC-75GF10-00A1	China	MXM GPU expansion module (1 x MXM, 1 x PCIe and 2 x removable 2.5" storage bay, 1 x HDMI, 3 x DP)
MIC-75S00-00A1	China	2 x removable 2.5" storage bay
MIC-75S20-00A2	China	2-slot expansion and storage module (2 x PCIe and 2 x removable 2.5" storage bay)
MIC-75S20-01A2	China	2-slot expansion and storage module (2 x PCIe and 2 x removable 2.5" storage bay)
98R17520301	China	2 x 3.5" HDD kit

*Please refer to MIC-75G20, MIC-75G30, and MIC-75GF10 datasheet for more product information.

Optional Accessories

Part Number	Description
98R1751300E	8-cm fan for 4-slot i-Modules
98R1752000E	2 x 4-cm fan for 2-slot i-Modules
98R1752002E	2x 4cm 23,000 RPM fan for 2-slot i-Module (for passive GPU card)
98R1752010E	2.5" HDD/SSD kit for 2-slot i-Module
1700024858-01	4-pin $12V_{DC}$ power cable (15cm, for PoE card)
	MIC-75G20 / MIC-75G30*
96PSD-A480W24-MS	480W PSU (for MIC-75G20)
1700029474-01	PSU Y-Cable, 1.5M (for MIC-75G20)
XMIC-HRPG-1000-24	100-240V, 1008W, 24V PSU (for MIC-75G30)
1700031413-01	PSU DC-DC power cable, 1M (for MIC-75G30)
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)
1700034561-01	M cable Type E 3P/TEMx3 80CM
1700022074-11	4-pin 12VDC power cable (40cm, for PoE card)