

MIC-3038 Series

4U high 8-slot CompactPCI™ Enclosure

Startup Manual

Packing List

Before you begin installing your card, please make sure that the following materials have been shipped:

- One MIC-3038 CompactPCI™ enclosure with eight-slot backplane
- One pair of rackmount bracket, and several screws
- One warranty certificate
- One startup Manual
- One CD disc and manual (in PDF format)

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Specifications

General

- **Construction:** Aluminum alloy and Nickel Plated
- **Slots:** Eight 4HP 6U CompactPCI™ slots (1x system slot and 7x peripheral slots) Eight 80mm rear transition slots IEEE 1101.11 compatible
- **Hot swappable:** Complies with PICMG 2.1 R 2.0 Hot Swap Specification
- **Dimensions (W x H x D, mounting flanges not included):** 441 x 177 x 342 mm (17.3" x 7" x 13.5")
- **Weight:** 13kg (28.6 lb)
- **Operating temperature:** 0 ~ 50° C (32 ~ 122° F)
- **Storage temperature:** -20° C ~ 80° C (-4 ~ 176° F)
- **Relative humidity:** 10 ~ 95% @ 40° C, non-condensing
- **Operating altitude:** 0 ~ 3,048 meters (0 ~ 10,000 feet)
- **Storage/transit altitude:** 0 ~ 12,190 meters (40,000 feet)
- **Shock:** 10 G (operating); 30 G (storage/transit)
- **Random vibration:** 5 ~ 500 MHz 1.0 Grms (operating) 2.0 Grms (Non-operating)

For more information on the MIC-3038 and other Advantech products, please visit our website at:

<http://www.advantech.com>

For technical support and service, please visit our support website at:

<http://support.advantech.com>

This manual is for the MIC-3038 series Rev. A1.

Part No. 2002303810

1st. Edition

Printed in Taiwan

October 2002

Fans

- **Air flow:** One 163-CFM fan (side), and one 43-CFM fan (rear)
- **Power consumption:** 0.45 A @ 12 V, 0.09 A @ 12V
- **Rated fan speed:** 2,170 (side) /4,500 (rear) rpm
- **Life expectancy:** 50,000 hours @ 25° C

Power Supply

- **Total Power:** Redundant 300W ATX with PFC
- **Input:** 100~240 V AC @ 50~60 Hz, auto switchable
- **Output:** +3.3 V @ 20 A, +5 V @ 32 A, +12 V @ 16 A, -12 V @ 0.8 A
- **Minimum load:** +3.3 V @ 1.0 A, +5V @ 3 A, +12 V @ 2.0 A
- **Max output:** 280 W for +5V, +3.3 V and +12 V, 35A for +5 V and +3.3 V
- **MTBF:** 100,000 hours @ 70% load
- **Safety:** UL/CUL/CE/FCC

Initial Inspection

We have carefully inspected the MIC-3038 before shipping. It should be free of marks and scratches, and in perfect working order upon receipt. As you unpack the MIC-3038, check for signs of shipping damages (damaged box, scratches, dents, etc.). If it is damaged or fails to meet specifications, notify our service department or your local representative immediately. Also notify the carrier. Retain the shipping carton and packing material for inspection by the carrier. We will make arrangements to repair or replace the unit upon inspection, .

Warning! We strongly recommend that only qualified, experienced personnel install or remove components. They must exercise extreme caution when doing the MIC-3038 illustration. The MIC-3038 is designed to be installed and maintained easily. Figure-1 and Figure-2 illustrate important components on the front and rear side of the enclosure

Before Operating the System

Before operating your system, first check your power supply source. The power supply module included in the MIC-3038 chassis accepts a full input range of 100~240 V AC without any switch setting. Two mounting flanges are included for users who would like to install the MIC-3038 on a 19" rack.

Installing Peripherals

The MIC-3038 accepts MIC-3960 as media interface, which can adopt 2.5" devices, Compact Flash, slim-type CD-ROM drive or slim-type FDD drive. Please see table-1 below for MIC-3960 for the device combinations. Meanwhile, MIC-3960 can only be used on MIC-3038B/4-2R which has a dedicate slot for media blade.

Table: MIC-3038 recommended device bay configuration.				
	2.5" HDD	Slim CD-ROM	Slim FDD	Compact Flash
Type A	1	1	-	1
Type B	1	-	1	1
Type C	2	-	-	1

Installing a 3.5" Hard Disk Drive

Follow the procedures below to install 2.5" hard disk drives in the MIC-3960:

1. Have the HDD isolation pad attached to stick on the HDD circuit side.
2. Slide HDD into the IDE connector.
3. Fix HDD by screws on the rear of MIC-3038

Installing a Slim-type Floppy Disk and Slim-type CD-ROM Drives

The MIC-3960 supports up to four IDE devices on the two IDE channels including IDE CD-ROM drives. But user only can have up to three IDE devices (including Compact Flash) due to its space limitation. To install an IDE slim type CDROM drive with the MIC-3960 you'll need:

- IDE CD-ROM drive / FDD drive (slim type)
- Mounting bracket for slim type CDROM / FDD drive
- Several screws for bracket

The MIC-3960 does not supply a power cable to run a CD ROM drive or other desktop style IDE device cause the power is provided via the connectors. Steps for installing an IDE CD-ROM drive / FDD drive with the MIC-3960 are as follows:

1. Turn the power off to the card cage and remove the MIC-3960.
2. Mounting the IDE CD-ROM / FDD drive with bracket and screws on MIC-3960
3. Re-insert the MIC-3960 into the card cage.
4. Power up the system and check if CD-ROM / FDD drive can be found.

Ordering Information

- **MIC-3038A/4-2R:** 2U-high CompactPCI? enclosure with 4-slot backplane (one master slot / three peripheral slots), hot-swap cooling fans, redundant power supply.
- **MIC-3038B/4-2R:** 2U-high CompactPCI? enclosure with 4-slot backplane (one master slot / three peripheral slots included one media blade slot), cooling fans, power supply.
- **MIC-3960-A:** Single-slot 6U CompactPCI? Media carrier board.
- **MIC-3924A-A:** Intelligent Chassis Management Module

