MIC-3041 Startup Manual
4U high 6-slot CompactPCI®enclosure with device bay

Packing List

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

- 1 MIC-3041 CompactPCI® enclosure with six-slot back-plane
- 1 pair of rackmount bracket, and several screws
- 1 warranty certificate
- 1 startup Manual
- 1 CD disc and manual (in PDF format)

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

Note 1: For detailed contents of the MIC-3041, please refer to the enclosed CD Disc or disk (in PDF format).
Note 2: Acrobat Reader is required to view any PDF file. Acrobat Reader can be downloaded at: www.adobe.com/Prodindex/acrobat/read-step.html(Acrobat is a trademark of Adobe.)

For more information on this and other Advantech products, please visit our website at:

http://www.advantech.com

http://www.advantech.com/epc

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

http://service.advantech.com.tw/eservice/

This manual is for the MIC-3041

Part No. 2002304110 1st Edition
August 2003.

Specifications

General

- **Construction:** Aluminum alloy and Nickel Plated
- **Slots:** Six 4HP 6U CompactPCI slots (1x system slot and 5x peripheral slots)
  Six 80mm rear transition slots
  IEEE 1101.11 compatible
- **Device bay:** two hot-swappable 3.5" HDD bay (SCSI or IDE)
- **Peripherals:** one slim CDROM and one slim FDD build in, and chassis management module (MIC-3924A) as optional
- **Hot swappable:** Complies with PICMG 2.1 R 2.0 Hot Swap Specification
- **Dimensions (W x H x D, mounting flanges not included):** 440 x 177 x 340 mm (17.3" x 7" x 13.4")
- **Weight:** 18kg (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)

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
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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

* default setting

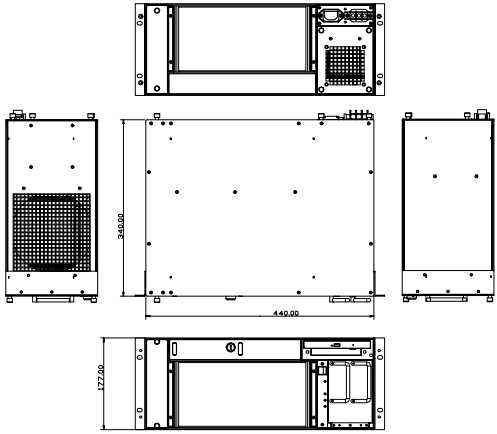

Figure 1.1: MIC-3041 dimensions

Ordering Information

- MIC-3041A/6-4R: 4U-high CompactPCI™ enclosure with 6-slot backplane (one master slot / five peripheral slots), two hot-swappable SCSI mobile rack, hot-swap cooling fans, redundant power supply.
- MIC-3041B/6-4R: 4U-high CompactPCI™ enclosure with 6-slot backplane (one master slot / five peripheral slots), two removable IDE mobile rack, hot-swap cooling fans, redundant power supply.
- MIC-3924A-A: Intelligent Chassis Management Module

Initial Inspection

We have carefully inspected the MIC-3041 mechanically and electrically before shipping. It should be free of marks and scratches and in perfect working order upon receipt. As you unpack the MIC-3041, check it for signs of shipping damage (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. After inspection, we will make arrangements to repair or replace the unit.

Warning! We strongly recommend that only qualified, experienced personnel install or remove components. They must exercise extreme caution when doing the MIC-3041 illustration. The MIC-3041 is designed to be installed and maintained easily.

Before Operating the System

Before operating your system, first check your power supply source. The power supply module included in the MIC-3041 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-3041 on a 19" rack.

Installing a 3.5" Hard Disk Drive

Follow the procedures below to install 3.5" hard disk drives in the MIC-3041:

1. Open the disk tray door and remove the mobile rack. For SCSI version the SCSI ID is shown on the mobile rack panel.

2. Mount HDD (SCSI or IDE) on mobile rack with screws.

3. Slide the HDD with mobile rack back into the tray.

4. Power on and check the HDD can be found at the SCSI initializing.

Note:

(1) The SCSI version (MIC-3041A) must be used with the RIO module which is bundled with SCSI controller, like RIO-3041S or RIO-3309B.

(2) The SCSI ID is assigned by the internal SCSI adaptor of MIC-3041, #0 and #1 are fixed and cannot be changed. User can read the number on the disk mobile rack.

(3) IDE version (MIC-3041B) is build in a RAID module which support RAID- 1 as factory default

Replacing the Hot-swap Fan and Air Filter

The MIC-30341 provides two hot-swap fans at both left and rear sides of the MIC-3041. Each fan can be individually replaced. This can be done without turning off the system power or interrupting system operation.

Follow these steps to replace a fan:

1. Unfasten the fan's holder.

2. Slide the fan's holder out.

3. Replace the old fan with a new one.

4. Slide the fan's holder in.

5. Fasten the new fan's holder.

The air filter may become dirty after a period of time. Follow these steps to replace a filter:

1. Remove the filter cover.

2. Replace the dirty filter with a clean one.

3. Reattach the filter cover.

Repeat steps 1 to 3 to replace other filters.

Connecting Rear I/O module

The MIC-3041A is limited to be used with rear I/O module, for SCSI devices accommodation, a SCSI on rear I/O module is needed. Advantech provides RIO-3308S, RIO-3302S, RIO-3302SP to serve this configuration. Please refer to the recommend configuration list for details. To install the RIO module, please follow the steps below:

1. Remove the blank panel above the system RIO slot. (Suggest to remove all the blank panels for installation)

2. User can find there are three cables inside, one IDE (40 pins) cable, one FDD (34 pins) cable and one SCSI cable (68 pins)

3. Connecting with the right connector on board so and slide into the card cage.

System Board Installation

System board must be installed on slot#5 (where the card guide is red). Do not install the system board in any other slot unless it is support drone mode.

Chassis Management Module Installation

MIC-3041 is optional with Advantech Chassis Management Module (CMM), MIC-3924 series. For user upgrade with CMM, user can just easily remove the dummy alarm board inside the rear of chassis, and replace with the CMM.

After installed CMM, remember to follow the MIC-3924 manual for a typical setting for MIC-3041 chassis.