MIC-3043

MIC-3043A

MIC-3043A-B

MIC-3043B

MIC-3043B-B

MIC-3043C

MIC-3043C-B

MIC-3043D

MIC-3043D-B

4U compactPCI platform with cPCI Power supply/Removable HDD Bay

User Manual

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Declaration of Conformity

CE

This product has passed the CE test for environmental specifications when shielded cables are used for external wiring. We recommend the use of shielded cables. This kind of cable is available from Advantech. Please contact your local supplier for ordering information.

FCC Class A

Note: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

CCC Class A

The statement for this A level product, in the living conditions, this product may cause harmful interference to radio communications. In this kind of situation, the user may need to take measures to rectify the disturbance.

Technical Support and Assistance

- Step 1. If you have any technical questions about the MIC-3043 or any other Advantech products, please visit our support website at: www.advantech.com.tw/support
- Step 2. Contact your distributor, sales representative, or Advantech's customer service center for technical support if you need additional assistance. Please have the following information ready before you call:
 - Product name and serial number
 - Description of your peripheral attachments
 - Description of your software (operating system, version, application software, etc.)
 - A complete description of the problem
 - The exact wording of any error messages

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To assist us in making improvements to this manual, we would welcome comments and constructive criticism. Please send all such - in writing to: support@advantech.com

For more information about Advantech's products and sales information, please visit: http://www.advantech.com

Packing List

Before setting up the system, check that the items listed below are included and in good condition. If any item does not accord with the table, please contact your dealer immediately.

- One MIC-3043 CompactPCI enclosure with backplane
- One box of accessories
- One warranty certificate
- One CD-ROM disk for user manual (PDF file)

Safety Instructions

- 1. Read these safety instructions carefully.
- 2. Keep this User's Manual for later reference.
- Disconnect this equipment from any AC outlet before cleaning.
 Use a damp cloth. Do not use liquid or spray detergents for cleaning.
- 4. For plug-in equipment, the power outlet socket must be located near the equipment and must be easily accessible.
- 5. Keep this equipment away from humidity.
- 6. Put this equipment on a reliable surface during installation. Dropping it or letting it fall may cause damage.
- 7. The openings on the enclosure are for air convection. Protect the equipment from overheating. DO NOT COVER THE OPENINGS.
- 8. Make sure the voltage of the power source is correct before connecting the equipment to the power outlet.
- 9. Position the power cord so that people cannot step on it. Do not place anything over the power cord.
- 10. All cautions and warnings on the equipment should be noted.
- 11. If the equipment is not used for a long time, disconnect it from the power source to avoid damage by transient overvoltage.
- 12. Never pour any liquid into an opening. This may cause fire or electrical shock.
- 13. Never open the equipment. For safety reasons, the equipment should be opened only by qualified service personnel.
- 14. If one of the following situations arises, get the equipment checked by service personnel:
- a. The power cord or plug is damaged.
- b. Liquid has penetrated into the equipment.
- c. The equipment has been exposed to moisture.
- d. The equipment does not work well, or you cannot get it to work according to the user's manual.
- e. The equipment has been dropped and damaged.
- f. The equipment has obvious signs of breakage.
- 15. DO NOT LEAVE THIS EQUIPMENT IN AN ENVIRONMENT WHERE THE STORAGE TEMPERATURE MAY GO BELOW 20° C (-4° F) OR ABOVE 60° C (140° F). THIS COULD DAMAGE THE EQUIPMENT. THE EQUIPMENT SHOULD BE IN A CONTROLLED ENVIRONMENT.

16. CAUTION: DANGER OF EXPLOSION IF BATTERY IS INCORRECTLY REPLACED. REPLACE ONLY WITH THE SAME OR EQUIVALENT TYPE RECOMMENDED BY THE MANUFACTURER, DISCARD USED BATTERIES ACCORDING TO THE MANUFACTURER'S INSTRUCTIONS.

The sound pressure level at the operator's position according to IEC 704-1:1982 is no more than 70 dB (A).

DISCLAIMER: This set of instructions is given according to IEC 704-1. Advantech disclaims all responsibility for the accuracy of any statements contained herein.

Wichtige Sicherheishinweise

- 1. Bitte lesen sie Sich diese Hinweise sorgfältig durch.
- 2. Heben Sie diese Anleitung für den späteren Gebrauch auf.
- 3. Vor jedem Reinigen ist das Gerät vom Stromnetz zu trennen. Verwenden Sie Keine Flüssig-oder Aerosolreiniger. Am besten dient ein angefeuchtetes Tuch zur Reinigung.
- 4. Die NetzanschluBsteckdose soll nahe dem Gerät angebracht und leicht zugänglich sein.
- 5. Das Gerät ist vor Feuchtigkeit zu schützen.
- 6. Bei der Aufstellung des Gerätes ist auf sicheren Stand zu achten. Ein Kippen oder Fallen könnte Verletzungen hervorrufen.
- Die Belüftungsöffnungen dienen zur Luftzirkulation die das Gerät vor überhitzung schützt. Sorgen Sie dafür, daB diese Öffnungen nicht abgedeckt werden.
- 8. Beachten Sie beim. AnschluB an das Stromnetz die AnschluBwerte
- 9. Verlegen Sie die NetzanschluBleitung so, daB niemand darüber fallen kann. Es sollte auch nichts auf der Leitung abgestellt werden.
- Alle Hinweise und Warnungen die sich am Geräten befinden sind zu beachten.
- 11. Wird das Gerät über einen längeren Zeitraum nicht benutzt, sollten Sie es vom Stromnetz trennen. Somit wird im Falle einer Überspannung eine Beschädigung vermieden.
- 12. Durch die Lüftungsöffnungen dürfen niemals Gegenstände oder Flüssigkeiten in das Gerät gelangen. Dies könnte einen Brand bzw. elektrischen Schlag auslösen.
- Öffnen Sie niemals das Gerät. Das Gerät darf aus Gründen der elektrischen Sicherheit nur von authorisiertem Servicepersonal geöffnet werden.
- 14. Wenn folgende Situationen auftreten ist das Gerät vom Stromnetz

zu trennen und von einer qualifizierten Servicestelle zu überprüfen:

- a Netzkabel oder Netzstecker sind beschädigt.
- b Flüssigkeit ist in das Gerät eingedrungen.
- c Das Gerät war Feuchtigkeit ausgesetzt.
- d Wenn das Gerät nicht der Bedienungsanleitung entsprechend funktioniert oder Sie mit Hilfe dieser Anleitung keine Verbesserung erzielen
- e Das Gerät ist gefallen und/oder das Gehäuse ist beschädigt.
- f Wenn das Gerät deutliche Anzeichen eines Defektes aufweist.
- 15. VOSICHT: Explisionsgefahr bei unsachgemaben Austausch der Batterie. Ersatz nur durch densellben order einem vom Hersteller empfohlene-mahnlichen Typ. Entsorgung gebrauchter Batterien navh Angaben des Herstellers.
- 16. ACHTUNG: Es besteht die Explosionsgefahr, falls die Batterie auf nicht fach-männische Weise gewechselt wird. Verfangen Sie die Batterie nur gleicher oder entsprechender Type, wie vom Hersteller empfohlen. Entsorgen Sie Batterien nach Anweisung des Herstellers

Der arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 Teil 1000 beträgt 70dB(A) oder weiger.

Haftungsausschluss: Die Bedienungsanleitungen wurden entsprechend der IEC-704-1 erstellt. Advantech lehnt jegliche Verantwortung für die Richtigkeit der in diesem Zusammenhang getätigten Aussagen ab.

Safety Precaution - Static Electricity

Follow these simple precautions to protect yourself from harm and the products from damage.

- 1. To avoid electrical shock, always disconnect the power from your PC chassis before you work on it. Don't touch any components on the CPU card or other cards while the PC is on.
- 2. Disconnect power before making any configuration changes. The sudden rush of power as you connect a jumper or install a card may damage sensitive electronic components.

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Hardware Configuration

Chapter 1 Hardware Configuration

1.1 Introduction

The MIC-3043 is a 4U-high enclosure designed as a high availability platform that supplies six CompactPCI slots for rack mounting. At the same height as a typical 4U platform, the MIC-3043 offers the equivalent capacity of 6U slot support in CompactPCI format. Thus, the maximum space efficiency required for applications like CT and networking is easily achieved. There are two compatible backplane solutions for the MIC-3043: one with H.110 CT bus support, and one without. MIC-3043 is also equipped with a 2+1 (500W+250W) hot-swappable/ redundant AC or DC compactPCI power supply that can fulfill most application requirements in a 4U-high system. With 1U space reserved for a storage device (SCSI or IDE) on top of the chassis, it gives maximum flexibility for most applications. The MIC-3043 has one slim-line CD-ROM drive built-in to maximize the available space in this 4U-high chassis. With a flexible modular design, the chassis accommodates a hot-swappable cooling fan, easily-maintainable power supply, and system status monitoring and control. For those mission-critical applications with high-manageability demands, MIC-3043 is compatible with a Chassis Management Module, the MIC-3924L-A, which is a stand-alone system environment monitoring module.

There are eight MIC-3043 series:

- MIC-3043A: 4U-high CompactPCI enclosure with 6-slot backplane (MIC-3811) that supports H.110 CT bus, removable IDE device bay, hot-swappable cooling fan modules. Power supply not included.
- MIC-3043A-B: identical to MIC-3043A chassis including 1+1 (250W+250W) redundant AC cPCI power supply.
- MIC-3043B: A 4U-high CompactPCI enclosure with 6-slot backplane (MIC-3812) that doesn't support H.110 CT bus, removable IDE device bay, hot-swappable cooling fan modules. Power supply not included.
- MIC-3043B-B: identical to MIC-3043B chassis including 1+1 (250W+250W) redundant AC cPCI power supply.
- MIC-3043C: A 4U-high CompactPCI enclosure with 6-slot backplane with CT bus support, hot-swappable SCSI device bay, hot-swappable cooling fan modules. Power supply not included.
- MIC-3043C-B: identical to MIC-3043C chassis including 1+1 (250W+250W) redundant AC cPCI power supply.

- MIC-3043D: A 4U-high CompactPCI enclosure with 6-slot backplane with CT bus support, removable/ hot-swappable SATA device bay, hot-swappable cooling fan modules. Power supply not included.
- MIC-3043D-B: identical to MIC-3043D chassis including 1+1 (250W+250W) redundant AC cPCI power supply.

Note:

- (1) For RoHS version, the ordering number will plus an "E" in the last such as MIC-3043DE.
- (2) Please contact local distributor to order DC and 2+1 (500W+250W) power supplies.

1.2 Features

- Six 6U card slots
- Supports front and rear I/O
- Supports H.110 CT application or non-CT application
- SCSI or IDE storage devices support
- 2+1 (500W+250W) hot swappable/redundant AC or DC CompactPCI power supplies
- Hot-swap fan modules
- Integrated intelligent fault detection and alarm module, MIC-3924L-A.

1.3 Specifications

1.3.1 General

- Construction: Aluminum frame and galvanized sheet steel
- I/O interfaces: 6-slot space (24 TE), including one system slot and five peripheral slots
- "Hot-swappable" platform complies with PICMG 2.1 R 1.0 Hot Swap Specification

Dimensions and Weight

- WxHxD: mounting flanges not included:
- 4U: 440x177x320 mm (17.3x7x12.6")
- Weight: 18 kg (39.7 lb) with 2+1 (500W+250W) redundant PSU

Mechanical and Environmental Specifications

- Operating temperature: $0 \sim 45^{\circ} \text{ C}$
- Storage temperature: -20° C ~ 60° C
- Relative humidity: 10 ~ 95% @ 40° C, non-condensing
- Operating altitude: $0 \sim 3,048$ meters $(0 \sim 10,000$ feet)
- Storage/transit altitude: 0 ~ 12,190 meters (40,000 feet)
- **Shock**: 10 G (operating); 30 G (storage/transit)
- Random vibration: 1.0 Grms (operating) without HDD

1.3.2 Hot-swap Fans

- Air flow: 193 CFM (front side Fan/hot swappable); 61.3 CFM (Rear Side Fan)
- Power consumption: 1.42 A @12 V (TYP); 0.3 A @12 V (TYP)
- Rated fan speed: 3000 RPM; 3400 RPM
- Life expectancy: 50,000 hours @ 25° C

1.3.3 Power Supply

- Input:
 - 1. AC: 100~240 V @ 47~63 Hz, full range (for MIC-3043X-A models)
 - 2. DC: -48 V (TYP), -36~-72 V range (Optional)
- Output: 2+1 (500W+250W) hot swappable and redundant AC or DC w/PFC
- Maximum load: +3.3 V @ 36 A, +5 V @ 50 A, +12 V @ 10 A, -12 V @ 1 A
- Minimum load: +3.3 V @ 0 A, + 5 V @ 2 A, +12 V @ 0 A, -12 V @ 0 A
- MTBF: AC: 266,241 hours @ 25° C; DC: 92,859 hours @ 30° C
- Safety: UL/CE/TUV /CCC

1.4 Dimensions and Appearance

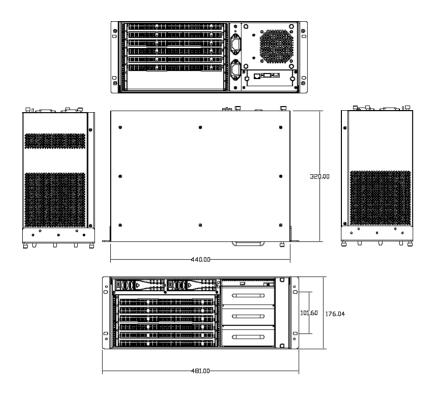


Figure 1.1: MIC-3043 functional block diagram



Figure 1.2: Appearance of MIC-3043

Installation

Chapter 2 Installation

2.1 Initial Inspection

We have carefully inspected the MIC-3043 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-3043, 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 so.

2.2 The MIC-3043 Illustration

The MIC-3043 is designed for easy installation and maintenance. Figure 2-1 and Figure 2-2 illustrate important components on the front and hot-swappable parts of the enclosure.



Figure 2.1: Front view of MIC-3043



Figure 2.2: Front view of MIC-3043

2.3 Installation Procedures

2.3.1 Card Installation and Removal

The CompactPCI connectors are firm and rigid, and require careful handling. Improper installation of a card can easily damage the backplane of the chassis.

The system card can be installed only in the system slot. The Compact-PCI specification allows the system slot to be in any position on the back-plane. Do not insert the system card into any other slot, and do not insert a peripheral card into the system slot. The MIC-3043 accepts different backplanes, so the location of the system slot may vary. The system slot is marked by a triangle enclosing the slot number. Please refer to the backplane user's manual.

The insert/eject handles on CompactPCI cards help users to install and remove the cards easily and safely. Follow the procedures below to install a card into a chassis:

To install a card:

Hold the card vertically. Be sure that the card is oriented correctly.
 The components of the card should be pointing to the right-hand side.

2. Make sure that the handles of the card are not latched. Release the handles if they are latched. Handles from different vendors may have different latch designs.

Caution!!! Keep your fingers away from the latch hinges to prevent your fingers from getting pinched.

- 3. Insert the card into the chassis by sliding the upper and lower edges of the card into the card guides.
- 4. Push the card into the slot gently by sliding the card along the card guide until the handles meet the rectangular holes of the cross rails.

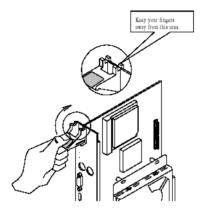


Figure 2.3: Installing a card into the chassis

Note:

If the card is correctly positioned and has been slid all the way into the chassis, the handles should match the rectangular holes. If not, remove the card from the card guide and repeat step 3 again. Do not try to install a card by forcing it into the chassis.

- 5. Pull the upper handle down and lift the lower handle up to push the card into place.
- 6. Secure the card by locking the handles into place.

To remove a card:

- 1. Unscrew the screws on the card front panel. Release the locking latches on the handles.
- 2. Lift the upper handle up and press the lower handle down to release the card from the backplane.
- 3. Slide the card out.

2.3.2 Before Operating the System

Before operating your system, first check your power supply source.

Adjust the switch on the power supply to the correct voltage.

Two mounting flanges are included for users who would like to install the MIC-3043 on a 19" rack.

2.3.3 Installing a 3.5" Hard Disk Drive

Follow these procedures to install 3.5" hard disk drives in the MIC-3043:

- 1. Open the disk tray door and remove the mobile rack. For a SCSI version, the SCSI ID is shown on the mobile rack panel. This is the same ID that the SCSI control would find after system startup.
- Mount the HDD (SCSI/IDE/SATA) on the mobile rack with screws.
- 3. Slide the HDD with mobile rack back into the tray.
- 4. Power on the system and check that the HDD can be found at the SCSI initialization.

Note:

- (1) The SCSI version (MIC-3043C) must be used with a RIO module that has a SCSI controller, like RIO-3309S-A.
- (2) The SCSI ID is assigned by the internal SCSI adaptor of MIC-3043, #0 and #1 are fixed and cannot be changed. Users can read the number on the disk mobile rack.

2.3.4 Connecting the rear I/O module

The MIC-3043 must be used with a proper rear I/O module. For enclosures with a SCSI drive bay, the rear I/O module must also support the internal SCSI function (e.g. RIO-3309S-A1). Please refer to the recommended configuration list for details. To install the RIO module, please follow the steps below:

- 1. Remove the blank panel above the system RIO slot. (We suggest removing all the blank panels before inserting the RIO module.
- 2. Users will find two cables inside, one IDE (40-pin) cable and one SCSI cable (68-pin)
- 3. Connect each cable to its connector on the I/O board, and then slide the RIO module into the card cage.
- 4. Power up the system and check that all the storage devices work properly.

2.3.5 Configuring the built-in RAID (SCSI) by RIO module (MIC-3043C series only)

The MIC-3043C supports two SCSI HDD bays. The SCSI HDDs must be used in conjunction with a RIO module that has SCSI RAID-1 built-in. For details about configuring the RAID feature, please refer to the RIO module user manual

Note: (1) Not all RIO modules support SCSI feature with RAID function.

(2) RIO-3309S modules support built-in Adaptec AIC-7901 (Ultra 320 SCSI controller chip) with RAID function



Figure 2.4: SCSI adaptor

2.3.6 Configuring the built-in IDE for the RIO module (MIC-3043A and IC-3043B series)

The MIC-3043A and MIC-3043B have IDE versions that support a removable HDD (not hot-swappable). Since there are many different HDD connectors on the market, please refer to the combination list "HDD number for type A" or "HDD number for type B" and Note 3 (below) before purchasing the IDE HDD. An illustration of the type B adaptor is shown in Figure 2-5 on the next page.

Note:

- (1) The IDE CD-ROM has to use the "USB to IDE" interface.
- (2) There are two types of IDE adapters. The default IDE adapter is type A. Users may also find a type B adaptor included in the accessory box.
- (3) AVL of HDD drive for two IDE adapter types.

Table 2.1: HDD number for type A					
Seagate	IBM	Maxtor	HITACHI		
ST340016A ST32122A ST313620A ST320413A	DJNA-371350	DiamondMax Plus 8	IC35L120AVV2 07-0		

Table 2.2: HDD number for type B			
Maxtor			
4G120J6			

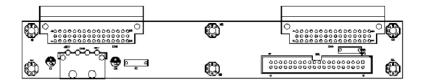


Figure 2.5:IDE adaptor (type B

2.3.7 Configuring the built-in SATA for the RIO module (MIC-3043D series)

MIC-3043D has SATA versions that support a removable or hot-swappable HDD which depends on RIO module type. Hot-swappable mode must use RIO module supporting SATA interface; conversely, IDE interface is only for removable. The default setting is through IDE interface. There is a DIP switch on HDD backplane for IDE/SATA selection. An illustration of the switch location is shown in Figure 2-6 as below.



Figure 2.6: The location of jumper switch

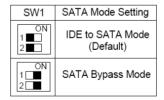


Figure 2.7: Setting table for IDE/SATA selection

2.3.8 Replacing the Hot-swap Fan

The MIC-3043 provides one hot-swap fan. Please refer to Figure 2-1 and 2-2. The fan can be removed without turning off the system power or interrupting the system operation.

Follow these steps to replace a fan:

- 1. Unfasten the fan holder.
- 2. Slide the fan holder out.
- 3. Replace the old fan with a new one.
- 4. Slide the fan holder in.
- 5. Fasten the new fan holder.



Figure 2.8: Hot-swappable fan maintenance

Backplane

Chapter 3 Backplane

3.1 General Information

There are two backplanes models that are compatible with the MIC-3043 series. MIC-3043A, MIC-3043C and MIC-3043D support the H.110 CT bus backplane, the MIC-3811. The MIC-3043B supports a non-CT backplane MIC-3812. Both backplanes provide six CompactPCI slots with one slot dedicated to the CPU board. The MIC-3043 supports front I/O wiring, providing simplified system cabling. The backplane also provides several 3-pin connectors to connect a hot-swappable cooling fan module. The MIC-3043 complies with PICMG 2.1 Hot-Swap Specification, providing full hot-swapping capability. Users can build a hot-swap system using hot-swap plug-in boards and software.

3.2 Features

- Six CompactPCI slots (one system slot and five peripheral slots)
- 64-bit PCI bus compliant
- Complies with PICMG 2.1 Hot-Swap Specification
- Accepts 2+1 (500W+250W) hot-swappable/redundant AC or DC CompactPCI power supplies
- Chassis alarm module for environment monitoring.
- Hot-swappable fan interface
- Supports dual SCSI or IDE HDD bays

3.3 Specification

- Six CompactPCI slots (one system slot and five peripheral slots)
- PCI Bus width: 64-bit
- Power connector: Two AC/DC power connectors for separate power input support
- Complies with CompactPCI Specification PICMG 2.0, R.3.0
- Complies with CompactPCI Hot-Swap Specification PICMG 2.1, R2.0.

- Complies with CompactPCI Front-Access Power Connectors PICMG 2.11, R3.0.
- Complies with CompactPCI Computer Telephony PICMG2.5, R1.0 (optional)
- Dimensions: 440 x 177 x 320 mm (17.3" x 7" x 12.6")
- Operating temperature: 0° C $\sim 45^{\circ}$ C

3.4 Slot Assignments

The CompactPCI specification defines slot numbering separation for physical and logical slots. Each slot has a physical number and a logical number (refer to the CompactPCI specification version 2.0 R3.0 for further information on slot assignments). The physical numbers are printed on the backplane, enclosed in circles or triangles. Slot5 of MIC-3811 and MIC-3812, marked by a triangle, is the system slot and can only be used by a CPU board. The other slots are peripheral slots. The logical number of each slot is defined according to the IDSEL signal and the associated address used to select the slot. Table 3-1 shows the system slot and peripheral slot relationships on the backplane. The system slot has a logical number of 5, and peripheral slots have logical numbers of 1~4, and 6. The connectors in logical slot 1 are designated as 1-P1, 1-P2, and 1-P3 from the bottom up. Nomenclature for connectors in the other slot is similar, such as 2-P1 and 2-P2.

Connector S5P1 on the system slot (slot 5) is a keyed connector providing a 32-bit CompactPCI bus between the system slot and the peripheral slot. Connector S5P2 on the system slot (slot 5) is an un-keyed connector providing 64-bit CompactPCI bus between the system slot and the peripheral slots. Connector S5P3 on the system slot (slot 5) is open for user definition. The pin assignment of connector S5P4 and S5P5 is only for H.110 CT bus support with MIC-3043A and MIC-3043C. For MIC-3043B, they are open for user definition.

Please check appendix A for the pin assignment of all connectors on the backplane.

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Table 3.1: System	n to peripheral slo	ot signal assignmer	ıt	
System Slot (Lo	gical Slot 5)	Peripheral Slot (Logical Slot 6)		
CLK4	P1:D6	CLK	P1:D6	
AD31	P1:E6	IDSEL	P1:B9	
REQ0#	P1:A6	REQ#	P1:A6	
GNT0#	P1:E5	GNT#	P1:E5	
System Slot (Lo	gical Slot 5)	Peripheral Slot (Logical Slot 4)	
CLK1	P2:A1	CLK	P1:D6	
AD30	P1:A7	IDSEL	P1:B9	
REQ1#	P2:C1	REQ#	P1:A6	
GNT1#	P2:D1	GNT#	P1:E5	
System Slot (Lo	gical Slot 5)	Peripheral Slot (Logical Slot 3)		
CLK2	P2:A2	CLK	P1:D6	
AD29	P1:B7	IDSEL	P1:B9	
REQ2#	P2:E2	REQ#	P1:A6	
GNT2#	P2:D2	GNT#	P1:E5	
System Slot (Lo	gical Slot 5)	Peripheral Slot (Logical Slot 2)		
CLK3	P2:B2	CLK	P1:D6	
AD28	P1:C7	IDSEL	P1:B9	
REQ3#	P2:E2	REQ#	P1:A6	
GNT3#	P2:C3	GNT#	P1:E5	
System Slot (Lo	gical Slot 5)	Peripheral Slot (Logical Slot 1)		
CLK0	P2:A3	CLK	P1:D6	
AD27	P1:E7	IDSEL	P1:B9	
REQ4#	P2:A3	REQ#	P1:A6	
GNT4# P2:E3		GNT#	P1:E5	

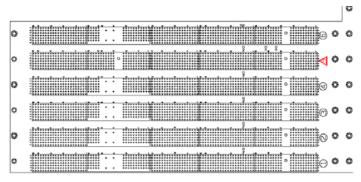


Figure 3.1: MIC-3811 and MIC-3812 slot numbering

3.5 Connector and Jumper Locations

The backplane provides connectors and jumpers for users to configure the backplane for specific applications. Table 3-2 gives a brief description of each connector on the backplane. Figures 3-3 to 3-6 illustrate the connector locations on the backplane.

Table 3.2: Backplane connector and jumper description					
Function	MIC-3811	MIC-3812			
AC/DC power connector	CN3, CN17	CN3, CN17			
CPCI power connector	CN1, CN2, CN5	CN1, CN2, CN5			
LED board connector	CN14	CN14			
Fan module connectors	CN8~CN13	CN8~CN13			
Power switch connector	CN15	CN15			
V I/O voltage selections	T1~T3	T1~T3			
I/O transition	P3, P5	P3, P4, P5			
H.110 CT bus (slots 1~4,6)	S1P4~S4P4, S6P4	N/A			
Alarm Module Connector	CN16	CN16			
M66EN	JP8	JP8			
64EN	JP1~JP6	JP1~JP6			
Drive bay power	CN18	CN18			
Power failure connector	CN4, CN6, CN7	CN4, CN6, CN7			

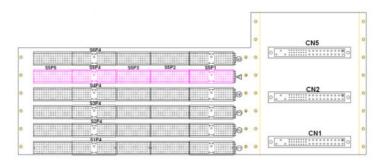


Figure 3.2: The connector and jumper locations on the front side (MIC-3811 & MIC-3812)

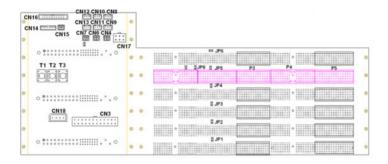


Figure 3.3: The connector and jumper locations on the rear side. (MIC-3811)

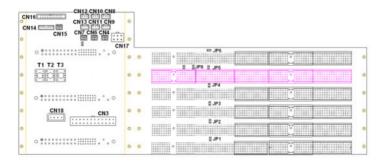


Figure 3.4: The connector and jumper locations on the rear side. (MIC-3812)

3.5.1 AC/DC Power Connector (CN3, CN17)

These connectors accept the separate AC/DC power input.

Note: The power connector CN17 is not compatible with

ATX pin assignment. Do not use an ATX power

supply instead of DC power supply.

3.5.2 Power Switch

This connector provides power control over the plug-in power module. If the CompactPCI chassis provides a 2-pin power switch cord, connect this cord to the CN15 connector to control the power by the power switch.

3.5.3 V I/O Voltage Selection

This jumper is used to select the V I/O voltage. The backplane allows

V I/O to be set to either 5 V or 3.3 V. Since the default is configured for use with 5V CompactPCI boards (blue-keyed connectors), once the jumper is set to 3.3 V, the CompactPCI keys must be changed to 3.3 V at the same time (as yellow-keyed connectors).

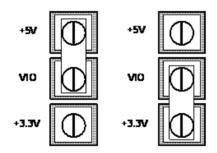


Figure 3.5: V I/O voltage selection

3.5.4 Fan Module Connector

The FAN connectors provide +12 V power for fan operation and relay the tachometer output from the fans.

Note: The fan4 is reserved as factory default.

3.5.5 Alert indicators

The MIC-3043 series alarm module (MIC-3924L-A) provides two alert signals to the chassis front panel, close to the HDD bay. The bottom signal is for fan failure; the upper signal is for system overheating (temperature above 50 °C).

Note: System temperature is detected by the alarm mod-

ule via the LM75 chip.

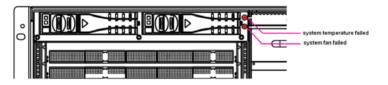


Figure 3.6: Location of alert indicators

3.6 Clock Routing Configuration

The backplane is configured to comply with the clock routing specified in the CompactPCI Specification, PICMG 2.0, R3.0. This Specification requires that each slot be independently clocked.



Pin Assignments

Appendix A Pin Assignments

A.1 MIC-3812 and MIC-3811 System Slot P1 Connector

Table A.1: MIC-3812 and MIC-3811 system slot P1 connector							
Pin	Z	Α	В	С	D	Е	F
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND
24	GND	AD[1]	+5V	V(I/O)	AD[0]	ACK64#	GND
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND
20	GND	AD[12]	GND	V(I/O)	AD[11]	AD[10]	GND
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND
17	GND	+3.3V	IPMB- SCL	IPMB- SDA	GND	PERR#	GND
16	GND	DEVSEL#	GND	V(I/O)	STOP#	LOCK#	GND
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND
12-14				Key Area			
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND
9	GND	C/BE[3]#	GND	AD[23]	GND	AD[22]	GND
8	GND	AD[26]	GND	V(I/O)	AD[25]	AD[24]	GND
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND
6	GND	REQ0#	GND	+3.3V	CLK0	AD[31]	GND
5	GND	BRSVP 1A5	RRSVP 1B5	RST#	GND	GNT0#	GND
4	GND	IPMB- PWR	Healthy#	V(I/O)	INTP	INTS	GND
3	GND	INTA#	INTB#	INTC#	+5V	INTD#	GND
2	GND	TCK	+5V	TMS	TDO	TDI	GND
1	GND	+5V	-12V	TRST#	+12V	+5V	GND



#: Low activity

A.2 MIC-3812 and MIC-3811 System Slot P2 Connector

Table	A.2: MIC	C-3812 an	d MIC-38	811 Syster	n Slot P2	Connecte	or
Pin	Z	Α	В	С	D	E	F
22	GND	GA4	GA3	GA2	GA1	GA0	GND
21	GND	NC	GND	RSV	RSV	RSV	GND
20	GND	NC	GND	RSV	GND	RSV	GND
19	GND	GND	GND	RSV	RSV	RSV	GND
18	GND	BRSVP 2A18	BRSVP 2B18	BRSVP 2C18	DND	BRSVP 2E18	GND
17	GND	BRSVP 2A17	GND	PRST#	NC	NC	GND
16	GND	BRSVP 2A16	BRSVP 2B16	DEG#	GND	BRSVP 2E16	GND
15	GND	BRSVP 2A15	GND	FAL#	NC	NC	GND
14	GND	AD[35]	AD[34]	AD[33]	GND	AD[32]	GND
13	GND	AD[38]	GND	V(I/O)	AD[37]	AD[36]	GND
12	GND	AD[42]	AD[41]	AD[40]	GND	AD[39]	GND
11	GND	AD[45]	GND	V(I/O)	AD[44]	AD[43]	GND
10	GND	AD[49]	AD[48]	AD[47]	GND	AD[46]	GND
9	GND	AD[52]	GND	V(I/O)	AD[51]	AD[50]	GND
8	GND	AD[56]	AD[55]	AD[54]	GND	AD[53]	GND
7	GND	AD[59]	GND	V(I/O)	AD[58]	AD[57]	GND
6	GND	AD[63]	AD[62]	AD[61]	GND	AD[60]	GND
5	GND	C/BE[5]#	GND	V(I/O)	C/BE[4]#	PAR64	GND
4	GND	V(I/O)	BRSVP 2B4	C/BE[7]#	GND	C/BE[6]#	GND
3	GND	CLK4	GND	GNT3#	REQ4#	GNT4#	GND
2	GND	CLK2	CLK3	SYSEN#	GNT2#	REQ3#	GND
1	GND	CLK1	GND	REQ1#	GNT1#	REQ2#	GND



A.3 MIC-3812 and MIC-3811 System Slots P3 Connector

Table	Table A.3: MIC-3812 and MIC-3811 System Slot P3 Connector								
Pin	Z	Α	В	С	D	E	F		
19	GND	NC	NC	NC	NC	NC	GND		
18	GND	NC	NC	NC	NC	NC	GND		
17	GND	NC	NC	NC	NC	NC	GND		
16	GND	NC	NC	NC	NC	NC	GND		
15	GND	NC	NC	NC	NC	NC	GND		
14	GND	NC	NC	NC	NC	NC	GND		
13	GND	NC	NC	NC	NC	NC	GND		
12	GND	NC	NC	NC	NC	NC	GND		
11	GND	NC	NC	NC	NC	NC	GND		
10	GND	NC	NC	NC	NC	NC	GND		
9	GND	NC	NC	NC	NC	NC	GND		
8	GND	NC	NC	NC	NC	NC	GND		
7	GND	NC	NC	NC	NC	NC	GND		
6	GND	NC	NC	NC	NC	NC	GND		
5	GND	NC	NC	NC	NC	NC	GND		
4	GND	NC	NC	NC	NC	NC	GND		
3	GND	NC	NC	NC	NC	NC	GND		
2	GND	NC	NC	NC	NC	NC	GND		
1	GND	NC	NC	NC	NC	NC	GND		



A.4 MIC-3812 and MIC-3811 System Slots P4 Connector

Table	Table A.4: MIC-3812 and MIC-3811 System Slot P4 Connector									
Pin	Z	Α	В	С	D	E	F			
25	GND	NC	NC	NC	NC	NC	GND			
24	GND	NC	NC	NC	NC	NC	GND			
23	GND	NC	NC	NC	NC	NC	GND			
22	GND	NC	NC	NC	NC	NC	GND			
21	GND	NC	NC	NC	NC	NC	GND			
20	GND	NC	NC	NC	NC	NC	GND			
19	GND	NC	NC	NC	NC	NC	GND			
18	GND	NC	NC	NC	NC	NC	GND			
17	GND	NC	NC	NC	NC	NC	GND			
16	GND	NC	NC	NC	NC	NC	GND			
15	GND	NC	NC	NC	NC	NC	GND			
12-14				Key Area						
11	GND	NC	NC	NC	NC	NC	GND			
10	GND	NC	NC	NC	NC	NC	GND			
9	GND	NC	NC	NC	NC	NC	GND			
8	GND	NC	NC	NC	NC	NC	GND			
7	GND	NC	NC	NC	NC	NC	GND			
6	GND	NC	NC	NC	NC	NC	GND			
5	GND	NC	NC	NC	NC	NC	GND			
4	GND	NC	NC	NC	NC	NC	GND			
3	GND	NC	NC	NC	NC	NC	GND			
2	GND	NC	NC	NC	NC	NC	GND			
1	GND	NC	NC	NC	NC	NC	GND			



A.5 MIC-3812 and MIC-3811 System Slots P5 Connector

Table	Table A.5: MIC-3812 and MIC-3811 System Slot P5 Connector								
Pin	Z	Α	В	С	D	E	F		
19	GND	NC	NC	NC	NC	NC	GND		
18	GND	NC	NC	NC	NC	NC	GND		
17	GND	NC	NC	NC	NC	NC	GND		
16	GND	NC	NC	NC	NC	NC	GND		
15	GND	NC	NC	NC	NC	NC	GND		
14	GND	NC	NC	NC	NC	NC	GND		
13	GND	NC	NC	NC	NC	NC	GND		
12	GND	NC	NC	NC	NC	NC	GND		
11	GND	NC	NC	NC	NC	NC	GND		
10	GND	NC	NC	NC	NC	NC	GND		
9	GND	NC	NC	NC	NC	NC	GND		
8	GND	NC	NC	NC	NC	NC	GND		
7	GND	NC	NC	NC	NC	NC	GND		
6	GND	NC	NC	NC	NC	NC	GND		
5	GND	NC	NC	NC	NC	NC	GND		
4	GND	NC	NC	NC	NC	NC	GND		
3	GND	NC	NC	NC	NC	NC	GND		
2	GND	NC	NC	NC	NC	NC	GND		
1	GND	NC	NC	NC	NC	NC	GND		

= long pins	= short pins	= medium pins
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A.6 MIC-3812 and MIC-3811 Peripheral Slot P1 Connector

Table	A.6: MIC	C-3812 an	d MIC-38	811 Perip	heral Slo	t P1 Conn	ector
Pin	Z	Α	В	С	D	E	F
25	GND	+5V	REQ64#	ENUM#	+3.3V	+5V	GND
24	GND	AD[1]	+5V	V(I/O)	AD[0]	ACK64#	GND
23	GND	+3.3V	AD[4]	AD[3]	+5V	AD[2]	GND
22	GND	AD[7]	GND	+3.3V	AD[6]	AD[5]	GND
21	GND	+3.3V	AD[9]	AD[8]	M66EN	C/BE[0]#	GND
20	GND	AD[12]	GND	V(I/O)	AD[11]	AD[10]	GND
19	GND	+3.3V	AD[15]	AD[14]	GND	AD[13]	GND
18	GND	SERR#	GND	+3.3V	PAR	C/BE[1]#	GND
17	GND	+3.3V	IPMB- SCL	IPMB- SDA	GND	PERR#	GND
16	GND	DEVSEL#	GND	V(I/O)	STOP#	LOCK#	GND
15	GND	+3.3V	FRAME#	IRDY#	GND	TRDY#	GND
12-14				Key Area			
11	GND	AD[18]	AD[17]	AD[16]	GND	C/BE[2]#	GND
10	GND	AD[21]	GND	+3.3V	AD[20]	AD[19]	GND
9	GND	C/BE[3]#	IDSEL	AD[23]	GND	AD[22]	GND
8	GND	AD[26]	GND	V(I/O)	AD[25]	AD[24]	GND
7	GND	AD[30]	AD[29]	AD[28]	GND	AD[27]	GND
6	GND	REQ#	GND	+3.3V	CLK	AD[31]	GND
5	GND	BRSVP 1A5	RRSVP 1B5	RST#	GND	GNT#	GND
4	GND	IPMB- PWR	Healthy #	V(I/O)	INTP	INTS	GND
3	GND	INTA#	INTB#	INTC#	+5V	INTD#	GND
2	GND	TCK	+5V	TMS	TDO	TDI	GND
1	GND	+5V	-12V	TRST#	+12V	+5V	GND



A.7 MIC-3812 and MIC-3811 Peripheral Slot P2 Connector

Table	A.7: MIC	C-3812 an	d MIC-38	811 Syster	n Slot P2	Connecte	or
Pin	Z	Α	В	С	D	E	F
22	GND	GA4	GA3	GA2	GA1	GA0	GND
21	GND	RSV	RSV	RSV	RSV	RSV	GND
20	GND	RSV	RSV	RSV	GND	RSV	GND
19	GND	RSV	RSV	RSV	RSV	RSV	GND
18	GND	BRSVP 2A18	BRSVP 2B18	BRSVP 2C18	GND	BRSVP 2E18	GND
17	GND	BRSVP 2A17	GND	RSV	RSV	RSV	GND
16	GND	BRSVP 2A16	BRSVP 2B16	RSV	GND	BRSVP 2E16	GND
15	GND	BRSVP 2A15	GND	RSV	RSV	BRSV	GND
14	GND	AD[35]	AD[34]	AD[33]	GND	AD[32]	GND
13	GND	AD[38]	GND	V(I/O)	AD[37]	AD[36]	GND
12	GND	AD[42]	AD[41]	AD[40]	GND	AD[39]	GND
11	GND	AD[45]	GND	V(I/O)	AD[44]	AD[43]	GND
10	GND	AD[49]	AD[48]	AD[47]	GND	AD[46]	GND
9	GND	AD[52]	GND	V(I/O)	AD[51]	AD[50]	GND
8	GND	AD[56]	AD[55]	AD[54]	GND	AD[53]	GND
7	GND	AD[59]	GND	V(I/O)	AD[58]	AD[57]	GND
6	GND	AD[63]	AD[62]	AD[61]	GND	AD[60]	GND
5	GND	C/BE[5]#	GND	V(I/O)	C/BE[4]#	PAR64	GND
4	GND	V(I/O)	BRSVP 2B4	C/BE[7]#	GND	C/BE[6]#	GND
3	GND	RSV	GND	RSV	RSV	RSV	GND
2	GND	RSV	RSV	UNC	RSV	RSV	GND
1	GND	RSV	GND	RSV	RSV	RSV	GND

= long pins	= short	pins = med	ium pins

Note: GA[4...0] shall be used for geographic addressing on the backplane

A.8 MIC-3812 and MIC-3811 Peripheral Slot P3 Connector

Table A	4.8: MIC	3 812 and I	MIC-3811	Peripheral	System Si	lot P3 Con	nector
Pin	Z	Α	В	С	D	E	F
19	GND	NC	NC	NC	NC	NC	GND
18	GND	NC	NC	NC	NC	NC	GND
17	GND	NC	NC	NC	NC	NC	GND
16	GND	NC	NC	NC	NC	NC	GND
15	GND	NC	NC	NC	NC	NC	GND
14	GND	NC	NC	NC	NC	NC	GND
13	GND	NC	NC	NC	NC	NC	GND
12	GND	NC	NC	NC	NC	NC	GND
11	GND	NC	NC	NC	NC	NC	GND
10	GND	NC	NC	NC	NC	NC	GND
9	GND	NC	NC	NC	NC	NC	GND
8	GND	NC	NC	NC	NC	NC	GND
7	GND	NC	NC	NC	NC	NC	GND
6	GND	NC	NC	NC	NC	NC	GND
5	GND	NC	NC	NC	NC	NC	GND
4	GND	NC	NC	NC	NC	NC	GND
3	GND	NC	NC	NC	NC	NC	GND
2	GND	NC	NC	NC	NC	NC	GND
1	GND	NC	NC	NC	NC	NC	GND



A.9 MIC-3812 Peripheral Slot P4 Connector

Table	A.9: MIC	C-3812 Pe	ripheral .	System Sl	ot P4 Cor	nnector	
Pin	Z	Α	В	С	D	E	F
25	GND	NC	NC	NC	NC	NC	GND
24	GND	NC	NC	NC	NC	NC	GND
23	GND	NC	NC	NC	NC	NC	GND
22	GND	NC	NC	NC	NC	NC	GND
21	GND	NC	NC	NC	NC	NC	GND
20	GND	NC	NC	NC	NC	NC	GND
19	GND	NC	NC	NC	NC	NC	GND
18	GND	NC	NC	NC	NC	NC	GND
17	GND	NC	NC	NC	NC	NC	GND
16	GND	NC	NC	NC	NC	NC	GND
15	GND	NC	NC	NC	NC	NC	GND
12-14				Key Area			
11	GND	NC	NC	NC	NC	NC	GND
10	GND	NC	NC	NC	NC	NC	GND
9	GND	NC	NC	NC	NC	NC	GND
8	GND	NC	NC	NC	NC	NC	GND
7	GND	NC	NC	NC	NC	NC	GND
6	GND	NC	NC	NC	NC	NC	GND
5	GND	NC	NC	NC	NC	NC	GND
4	GND	NC	NC	NC	NC	NC	GND
3	GND	NC	NC	NC	NC	NC	GND
2	GND	NC	NC	NC	NC	NC	GND
1	GND	NC	NC	NC	NC	NC	GND



A.10 MIC-3811 Peripheral Slot P4 Connector

Table	A.10: MI	C-3811 P	Peripheral	System S	Slot P4 Co	onnector	
Pin	Z	Α	В	С	D	E	F
25	NC	SGA4	SGA3	SGA2	SGA1	SGA0	GND
24	NC	GA4	GA3	GA2	GA1	GA0	GND
23	NC	+12V	#CT_RT	#CT_EN	-12V	CT_MC	GND
22	NC	#PF_S0	RSV	RSV	RSV	RSV	GND
21	NC	-SEL_Vbat	#PF_S1	RSV	RSV	SELV- batRtn	GND
20	NC	NC	NC	NC	NC	NC	GND
19	NC	NC	NC	NC	NC	NC	GND
18	NC	VRG	NC	NC	NC	VRGRtn	GND
17	NC	NC	NC	NC	NC	NC	GND
16	NC	NC	NC	NC	NC	NC	GND
15	NC	-Vbat	NC	NC	NC	VbatRtn	GND
12-14				Key Area			
11	NC	CT_D29	CT_D30	CT_D31	VIO	#CT_FA	GND
10	NC	CT_D27	+3.3V	CT_D28	+5V	#CT_FB	GND
9	NC	CT_D24	CT_D25	CT_D26	GND	#FR_CP	GND
8	NC	CT_D21	CT_D22	CT_D23	+5V	CT_C8A	GND
7	NC	CT_D19	+5V	CT_D20	GND	CT_C8B	GND
6	NC	CT_D16	CT_D17	CT_D18	GND	CT_N1	GND
5	NC	CT_D13	CT_D14	CT_D15	+3.3V	CT_N2	GND
4	NC	CT_D11	+5V	CT_D12	+3.3V	SCLK	GND
3	NC	CT_D8	CT_D9	CT_D10	GND	SCLK	GND
2	NC	CT_D4	CT_D5	CT_D6	CT_D7	GND	GND
1	NC	CT_D0	+3.3V	CT_D1	CT_D2	CT_D3	GND



A.11 MIC-3811 Peripheral Slot P5 Connector

Table	A.11: MI	C-3811 P	eripheral	Slot P5 (Connector	·	
Pin	Z	Α	В	С	D	E	F
22	NC	T1	Т9	T17	T25	IN/C	GND-IN/C
21	NC	R1	R9	R17	R25	IN/C	GND-IN/C
20	NC	T2	T10	T18	T26	IN/C	GND-IN/C
19	NC	R2	R10	R18	R26	IN/C	GND-IN/C
18	NC	Т3	T11	T19	T27	IN/C	GND-IN/C
17	NC	R3	R11	R19	R27	IN/C	GND-IN/C
16	NC	T4	T12	T20	T28	IN/C	GND-IN/C
15	NC	R4	R12	R20	R28	IN/C	GND-IN/C
14	NC	T5	T13	T21	T29	IN/C	GND-IN/C
13	NC	R4	R13	R21	R29	IN/C	GND-IN/C
12	NC	T6	T14	T22	T30	IN/C	GND-IN/C
11	NC	R6	R14	R22	R30	IN/C	GND-IN/C
10	NC	T7	T15	T23	T31	IN/C	GND-IN/C
9	NC	R7	R15	R23	R31	IN/C	GND-IN/C
8	NC	T8	T16	T24	T32	IN/C	GND-IN/C
7	NC	R8	R16	R24	R32	IN/C	GND-IN/C
6	NC	IN/C	IN/C	IN/C	IN/C	IN/C	GND-IN/C
5	NC	IN/C	IN/C	IN/C	IN/C	IN/C	GND-IN/C
4	NC	Uo0	Uo1	GND_FT	GND_FT	GND_FT	GND-IN/C
3	NC	Ui0	Ui1	Uo4	Uo5	Uo6	GND-IN/C
2	NC	Uo2	Uo3	Ui4	Ui5	Ui6	GND-IN/C
1	NC	Ui2	Ui3	+5V_FT	+12V_FT	-12V_FT	GND-IN/C



A.12 MIC-3812 Peripheral Slot P5 Connector

Table	A.12: M	IC-3812 I	Periphera	l Slot P5	Connecto	or	
Pin	Z	Α	В	С	D	E	F
22	GND	NC	NC	NC	NC	NC	GND
21	GND	NC	NC	NC	NC	NC	GND
20	GND	NC	NC	NC	NC	NC	GND
19	GND	NC	NC	NC	NC	NC	GND
18	GND	NC	NC	NC	NC	NC	GND
17	GND	NC	NC	NC	NC	NC	GND
16	GND	NC	NC	NC	NC	NC	GND
15	GND	NC	NC	NC	NC	NC	GND
14	GND	NC	NC	NC	NC	NC	GND
13	GND	NC	NC	NC	NC	NC	GND
12	GND	NC	NC	NC	NC	NC	GND
11	GND	NC	NC	NC	NC	NC	GND
10	GND	NC	NC	NC	NC	NC	GND
9	GND	NC	NC	NC	NC	NC	GND
8	GND	NC	NC	NC	NC	NC	GND
7	GND	NC	NC	NC	NC	NC	GND
6	GND	NC	NC	NC	NC	NC	GND
5	GND	NC	NC	NC	NC	NC	GND
4	GND	NC	NC	NC	NC	NC	GND
3	GND	NC	NC	NC	NC	NC	GND
2	GND	NC	NC	NC	NC	NC	GND
1	GND	NC	NC	NC	NC	NC	GND



A.13 Fan Module Connectors



Table A.13: Fan Module Connectors			
Pin	Assignment		
1	+12V		
2	GND		
3	Fan speed		

A.14 LED Board Connector

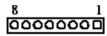


Table A.14: LED Board Connector			
Pin	Assignment		
1	+3.3V		
2	N/C		
3	+5V		
4	N/C		
5	+12V		
6	GND		
7	GND		
8	N/C		

A.15 MIC-3812 & MIC-3812 Alarm Board Interface Connector

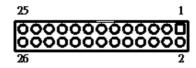


Table A.15: MIC-3812 & MIC-3812 Alarm Board Interface Connector				
Pin	Signal	Pin	Signal	
1	VCC	14	+12V	
2	VCC	15	IPMB power	
3	VCC	16	N/C	
4	N/C	17	Fan Speed5	
5	VCC	18	SMB-SDA	
6	VCC3	19	Fan Speed 6	
7	Fan Speed1	20	SMB-SCL	
8	N/C	21	IPMB-SCL	
9	Fan Speed2	22	PS_ON	
10	-12V	23	IPMB-SDA	
11	Fan Speed3	24	N/C	
12	N/C	25	GND	
13	Fan Speed4	26	GND	

A.16 cPCI Power Connector (CN1,CN2, and CN5)



Table A.16: cPC	Power Connector	r (CN1,CN2, and	CN5)
Pin	Signal	Pin	Signal
1	+5V	26	RSV
2	+5V	27	EN#
3	+5V	28	GA1
4	+5V	29	+5VADJ
5	GND	30	+5VSENSE
6	GND	31	GA2
7	GND	32	+3.3VADJ
8	GND	33	+3.3VSENSE
9	GND	34	SRTN
10	GND	35	+5VSHARE
11	GND	36	+12VSENSE
12	GND	37	IPMBSCL
13	+3.3V	38	DEG#
14	+3.3V	39	INH#
15	+3.3V	40	IPMBSDA
16	+3.3V	41	+3.3VSHARE
17	+3.3V	42	FAL#
18	+3.3V	43	IPMBPWR
19	GND	44	+12VSHARE

A.17 AC/DC Power Connector (CN3)

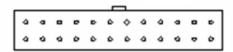


Table A.17: AC/DC Power Connector (CN3)					
Pin	Signal	Pin	Signal		
1	ACL/-DC PSU2	13	ACL/-DC PSU2		
2	ACL/-DC PSU2	14	ACL/-DC PSU2		
3	NC	15	NC		
4	ACN/+DC PSU2	16	ACN/+DC PSU2		
5	ACN/+DC PSU2	17	ACN/+DC PSU2		
6	NC	18	NC		
7	ACL/-DC PSU1	19	ACL/-DC PSU1		
8	ACL/-DC PSU1	20	ACL/-DC PSU1		
9	NC	21	NC		
10	ACN/+DC PSU1	22	ACN/+DC PSU1		
11	ACN/+DC PSU1	23	ACN/+DC PSU1		
12	NC	24	NC		

A.18 AC/DC Power Connector (CN17)

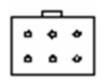


Table A.18: AC/DC Power Connector (CN17)				
Pin	Pin Assignment			
1	ACL/-DC PSU3			
2	ACL/-DC PSU3			
3	NC			
4	NC			
5	ACN/+DC PSU3			
6	ACN/+DC PSU3			

A.19 Enable Power Switch Connector (CN15)



Table A.19: Enable Power Switch Connector (CN15)			
Pin	Assignment		
1	EN+		
2	GND		

A.20 Device Power Connector (CN18)



Table A.20: Device Power Connector (CN18)			
Pin	Assignment		
1	+12V		
2	GND		
3	GND		
4	+5V		

B

Ordering Information

Appendix B Ordering Information

- MIC-3043A: A 4U-high CompactPCI enclosure with removable IDE device bay, hot swappable cooling fan modules, and a 6-slot backplane that provides H.110 CT bus support (MIC-3811). Power supply is not inleuded.
- MIC-3043A-B: A 4U-high CompactPCI enclosure with removable IDE device bay, hot-swappable cooling fan modules, 1+1 (250W+250W) redundant CPCI power supply, and a 6-slot backplane that provides H.110 CT bus support (MIC-3811).
- MIC-3043B: A 4U-high CompactPCI enclosure with removable IDE device bay, hot-swappable cooling fan modules, and a 6-slot backplane (MIC-3812) that doesn't support H.110 CT bus (MIC-3812). Power supply not included.
- MIC-3043B-B: A 4U-high CompactPCI enclosure with removable IDE device bay, hot-swappable cooling fan modules, 1+1 (250W+250W) redundant cPCI power supply, and a 6-slot backplane (MIC-3812) that doesn't support H.110 CT bus.
- MIC-3043C: 4U-high CompactPCITM enclosure with 6-slot backplane (MIC-3811) that supports H.110 CT bus, hot-swappable SCSI device bay, hot-swappable cooling fan modules. Power supply not included.
- MIC-3043C-B: 4U-high CompactPCI enclosure with hot-swappable SCSI device bay, hot-swappable cooling fan modules, 1+1 (250W+250W) redundant cPCI power supply, and a 6-slot backplane (MIC-3811) that supports H.110 CT bus.
- MIC-3043D: A 4U-high CompactPCI enclosure with removable/Hot-swappable SATA device bay, hot swappable cooling fan modules, and a 6-slot backplane that provides H.110 CT bus support (MIC-3811). Power supply is not included.
- MIC-3043D-B: A 4U-high CompactPCI enclosure with removable/ Hot-swappable SATA device bay, hot-swappable cooling fan modules, 1+1 (250W+250W) redundant CPCI power supply, and a 6-slot backplane that provides H.110 CT bus support (MIC-3811).

For the recommended 6U CompactPCI SBC, please refer to the table below:

Table B.1: Recommended 6U CompactPCI SBC					
Chassis Master SBC		RIO	Alarm module		
MIC-3043A series		RIO-3309C-A, RIO-3309S-A2			
MIC-3043B series	MIC-3369C-Mx MIC-3358A-Mx	RIO-3309C-A, RIO-3309S-A2	Default Solution: MIC-3924L-A		
MIC-3043C series		RIO-3309S-A1	Upgrade Solution: MIC-3924A-B		
MIC-3043D series		RIO-3309C-A, RIO-3309S-A2			

Default Alarm Module:

• MIC-3924L-A: Chassis management module without remote control for general purpose chassis and single SBC applications.

Upgradeable Alarm Module

• MIC-3924A-B: Chassis management module with remote control for general purpose chassis and for single SBC applications.