

MIC-3082A

12U CompactPCI® Enclosure with 21-slot 6U Backplane and Redundant Power Supply (CT Bus)



Features

- 21-slot 6U CompactPCI® backplane
- Multiple backplane configuration available for various applications (1/2/4 segments)
- PICMG 2.16 (CompactPCI Packet Switching Backplane) compliance
- PICMG 2.5 (CompactPCI Computer Telephony) compliance
- AC or DC ATX 1960 W+280 W redundant (7+1) power supplies
- Six hot-swappable fans and blower
- Built-in intelligent chassis management module, optional backplane combination (MIC-3924A-B)

Introduction

The MIC-3082A 12U general purpose, multi-segment, packet switched CompactPCI enclosure is an extremely flexible, high-availability platform, configurable for both compute-intensive and I/O-intensive applications. It is one of several telecom building blocks from Intel®, built on the PICMG 2.16 specification, providing OEM equipment designers with carrier-grade, standards-based solutions. This high-capacity CompactPCI platform features innovative power and cooling. In addition to its high availability features, the MIC-3082A platform is highly modular, scalable, and extremely serviceable. It is designed to operate with Advantech's high-performance CPU boards and packet switched backplane products, and with third-party boards meeting PICMG 2.16 specifications.

Flexible Backplane Configurations

The backplane is flexible and can accommodate multiple configurations.

Blade servers -Supports up to 18 independent servers communicating over the PICMG 2.16-compliant Ethernet backplane (slots 2-19) with dual switch blades.

Single system -One PCI segment with total 18 slots available for your application with optional switch capability.

Dual system -Two independent PCI segments which allow two independent systems.

Quad system -Four independent PCI segments which allow multiple independent systems.

The MIC-3082A has a 64-bit PCI-to-PCI bridge module to extend the number of I/O slots. All slots support IEEE 1101.11, with 80mm-deep transition cards in the rear-panel I/O section, directly behind the backplane. Each node and fabric slot may be independently configured for 3.3 V or 5 V I/O operation.

Specifications

Backplane	Node Slot	6U CompactPCI x 18, rear transition x 18 (80 mm, IEEE1101.11 compatible) support single board computer or peripherals					
	Fabric Slot	6U redundant PICMG 2.16 10/100/1000 Ethernet Fabric x 2					
	Bus	Four 32/64-bit, 33/66 MHz PCI bus					
	Dimension VI/O Voltage	3.3 V/5 V (selectable)					
Bridge module	Controller	Intel DEC21154					
	Bus	32/64-bit, 33/66 MHz					
	VI/O Voltage	3.3 V/5 V (selectable)					
Cooling	Fan	3 (151 CFM) in the middle of middle of chassis (inlet)					
	Blower	3 (40 CFM) on the chassis top (outlet)					
Power Supply	Input	AC 100 ~ 240 V @ 50 ~ 60 Hz, full range (PFC) DC - 48 V (- 38 ~ - 72 V input range)					
	Output	AC or DC 280 W redundant power module					
	AC (4 modules)	+3.3 V*	+5 V*	-5 V	+12 V	-12 V	+5 Vsb
	Max. Load	58 A	86 A	2 A	30 A	2 A	3 A
	Min. Load	0.3 A	2.0 A	0.0 A	0.5 A	0.0 A	0.0 A
	DC (4 modules)	+3.3 V*	+5 V*	-5 V	+12 V	-12 V	+5 Vsb
	Max. Load	58 A	86 A	2 A	30 A	2 A	3 A
Min. Load	0.3 A	2.0 A	0.0 A	0.5 A	0.0 A	0.0 A	

Specifications Cont.

Environment	Temperature	Operating 0 ~ 45 °C (32 ~ 113 °F)	Non-Operating -20 ~ 60 °C (-4 ~ 140 °F)	
	Humidity	20 ~ 90 % @ 40 °C, non-condensing		10 ~ 95 % @ 40 °C, non-condensing
	Shock	10 G		30 G
	Vibration (5-500 Hz)	1.0 Grms		2.0 G
	Physical Characteristics	Dimensions (W x H x D)	440 x 533 x 431 mm (17.3" x 21" x 17")	
Reliability	Weight	40 Kg (88.1 lb)		
	MTBF	Backplane 800,000 hours	Fan module 50,000 hours @ 25 °C	Power supply 100,000 hours @ 70% load
Serviceability	MTTR	5 minutes		
Compliance	PICMG 2.0 R3.0 CompactPCI Core Specification PICMG 2.1 R2.0 CompactPCI Hot Swap Specification PICMG 2.5 R1.0 CompactPCI Computer Telephony Specification PICMG 2.16 R1.0 CompactPCI Packet Switching Backplane Specification			

Recommended Configurations

Enclosure	CPU Board	Rear I/O Board	Alarm Module
MIC-3082A	MIC-3369C-Mx	RIO-3309C-A, RIO-3309S-A2	MIC-3924A/L
	MIC-3358A-Mx	RIO-3309C-A, RIO-3309S-A2	MIC-3924A/L
	MIC-3390	RIO-3310S-A2	MIC-3924A/L

Flexible Backplane Configurations

Number of PCI Segment	Bridge Board
1	3
2	2
4	-

Note: See detailed setting in manual

Ordering Information

Part Number	Power Distribution	Power Supply
MIC-3082A-AD	1960 W + 280 W (7+1 4AC + 4DC)	1757984010 (AC) 1757984011 (DC)
MIC-3082A-AA	1960 W + 280 W (7+1)	1757984010 (AC) 1757984010 (AC)

Accessories

Part Number	Description
1757984010	Single AC ATX 280 W power supply module (included)
1757984011	Single DC ATX 280 W power supply module (included)
968A390000	MIC-3924A-B intelligent chassis management module
968A390020	MIC-3924L-A alarm module

21-slot backplane supporting 17 nodes, 1 system, 2 fabric, and 1 CMM (chassis management module)



AC or DC ATX 1960 W+280 W redundant (7+1) power supplies



Hot-swappable fans and blowers

Supports IEEE 1101.11 real I/O transition boards



Intelligent alarm module, detecting system power, fan speed and CPU temperature