MIC-3041

4U CompactPCI® Enclosure with 6-slot 6U Backplane and Redundant Power Supply (CT Bus and Rear I/O)

Features

- 6-slot 6U CompactPCI backplane with H.110 CT bus
- Supports two hot-swappable SCSI HDD bays
- Supports rear I/O
- Built-in IDE slim CD-ROM and floppy
- 300 W ATX 1+1 redundant power supply
- Supports hot-swappable fan modules
- Optional intelligent Chassis Management Module
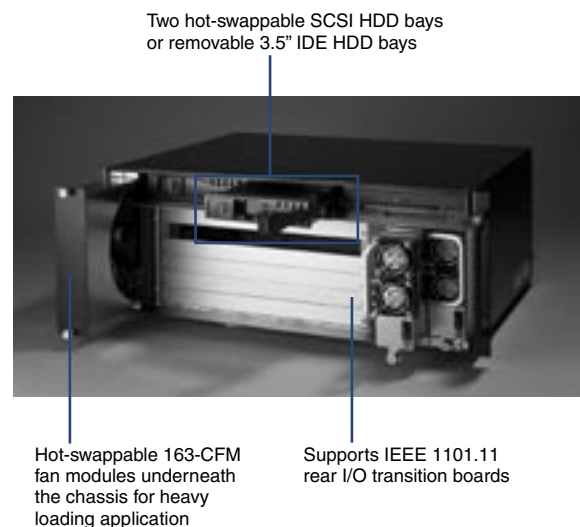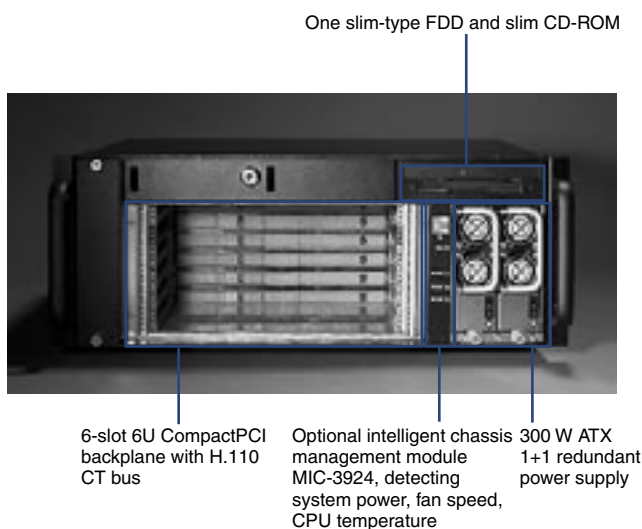
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Introduction

The MIC-3041 is a 4U-high enclosure designed for mission critical and high reliability applications such as demanding Networking, Telecommunication, Computer Telephony Integration, Image Processing and Industrial Automation. It is equipped with a redundant power supply and hot-swappable fan module to minimize MTTR (Mean Time to Repair). This system supports 6 slots standard CompactPCI boards, which meet high density and space efficiency requirement. The MIC-3041 supports IEEE 1101.11 rear I/O transition boards. Users can route I/O signals to the rear transition boards to simplify system cabling. Front boards pop in and out without any hardwiring.

The MIC-3041 has two build-in hot-swappable SCSI HDD bays or removable 3.5" IDE HDD bays as standard. One slim-type FDD and slim CD-ROM provide users more flexibility for storage media demands. To enhance the enclosures thermal solution, non-blocked ventilation design with suck-in (left) and out (rear) hot-swappable fans provides the best system cooling efficiency and high fault tolerant capability.

The MIC-3041 comes standard with a built-in high quality backplane that provides 64-bit/66 MHz bus speed with best impedance control and full range compatibility. The default H.110 bus complies with PICMG® 2.5, which is the open architecture to build up a telecom solution or as an ideal development platform.

With optional Chassis Management Module (MIC-3924), not only the chassis temperature and fan speed can be detected, the built-in web-based administration interface also allows user to monitor the system's operation from any place with Internet connectivity to take necessary action to avert system failure. The notification can also be delivered by warning LED and beep tones.

One slim-type FDD and slim CD-ROM

Two hot-swappable SCSI HDD bays or removable 3.5" IDE HDD bays

6-slot 6U CompactPCI backplane with H.110 CT bus

Optional intelligent chassis management module MIC-3924, detecting system power, fan speed, CPU temperature

300 W ATX 1+1 redundant power supply

Hot-swappable 163-CFM fan modules underneath the chassis for heavy loading application

Supports IEEE 1101.11 rear I/O transition boards

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Specifications

		MIC-3041A/6-4R			MIC-3041B/6-4R		
Backplane	6U Slot	System x6, Rear transition x6 (80 mm, IEEE 1101.11 compatible)					
	Bus	32-bit/33 MHz, 64-bit/66 MHz					
	H.110 CT Bus	Yes					
	V$_{I/O}$ Voltage	3.3 V/5 V (short-bar selectable)					
Drive Bay	3.5" SCSI IDE	2 (hot-swap)			--		
	3.5" IDE HDD	--			2 (removable)		
	Slim FDD	1			1		
	Slim CD-ROM	1			1		
Cooling	Fan	1 (163 CFM) on the chassis bottom (inlet)					
		1 (44 CFM) on the chassis top (outlet)					
Power Requirement	Input	AC 100 ~ 240 V @ 47 ~ 63 Hz, full range (PFC)					
	Output	300 W ATX (1+1 redundant, 300 W/each)					
		+3.3 V*	+5 V*	-5 V	+12 V	-12 V	+5 Vsb
	Max. Load	20 A	32 A	0.5 A	16 A	0.8 A	1.5 A
	Min. Load	1.0 A	3.0 A	--	2.0 A	--	0.1 A
Environment		Operating			Non-Operating		
	Temperature	0 ~45 °C (32 ~ 113 °F)			-40 ~ 60 °C (-40 ~ 140° F)		
	Humidity	--			95% @ 60° C, non-condensing		
	Vibration (5-500 Hz)	1.0 Grms			2.0 G		
Physical	Dimensions (W x H x D)	440 x 177 x 300 mm (17.3" x 7" x 11.8")					
	Weight	14 Kg (30.8 lb)					
Reliability	MTBF	100,000 hours					
Serviceability	MTTR	5 minutes					
Compliance	Standard	PICMG 2.0, R3.0 CompactPCI Specification PICMG 2.1, R1.0 CompactPCI Hot-Swap Specification PICMG 2.5, R1.0 CompactPCI Computer Telephony Specification					

* Max. output 280 W for + 5V and +3.3 V

Recommended Configurations

Enclosure	CPU Board		Rear I/O Board
	Master	**Slave**	
MIC-3041A/6R	MIC-3377/M MIC-3389		RIO-3302S
	MIC-3368E-A MIC-3368E1-A		RIO-3308C RIO-3308S
		MIC-3366 MIC-3366B	RIO-3306
MIC-3041B/6-4R	MIC-3358A MIC-3369A		RIO-3309C

* Four peripheral slots are available when use this CPU board (2-slot width)
** Peripheral SBC

Ordering Information

Part Number	CD-ROM	FDD	HDD Drive Bay	Power Supply
MIC-3041A/6-4R	1	1	2 (SCSI)	300 W ATX (1+1 redundant, 300 W/each)
MIC-3041B/6-4R	1	1	2 (IDE)	

Parts Information

Part Number	Descriptions
1757930045	300 W ATX redundant power supply
1757930051	Single power supply module for 300 W ATX (P/N: 1757930045)
9682303800	Front hot-swappable fan module (163 CFM)
9682303801	Rear hot-swappable fan module (44 CFM)