RIO-3301/3302/3303/3306/3308/3309, MIC-3302

Introduction

The complete series of rear transition boards provide rear-panel access to the I/O interfaces of Advantech CompactPCI CPU board.

The RIO-3301 is designed for CompactPCI CPU boards with dual PCI-to-PCI bridges. RIO-3301 only utilizes the J3 connector for the I/O transition, while the J4 and J5 connectors are left unused for the second PCI bus segment.

The RIO-3302, RIO-3302S, RIO-3303 use the J3 and J4 connectors for the I/O transition and provide the same rear I/O interfaces. The only differences are that RIO-3302S provides on-board SCSI function and RIO-3303 provides one slim-type CD-ROM connector and one slim-type FDD connector for the devices in the enclosure.

The RIO-3306 and RIO-3308 also provide the same I/O interfaces. Except the RIO-3308 is specifically for master CPU board MIC-3368 and RIO-3306 is for slave CPU board MIC-3366.

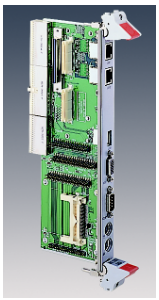
RIO-3309C is dedicated for MIC-3358 and MIC-3369 series.

Features

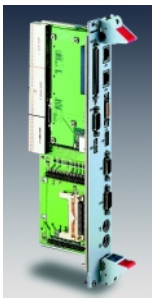
- External rear-panel interface connectors for CPU boards
- On-board CompactFlash socket
- Ultra 160 SCSI interface
- On-board bracket to carry a 2.5" HDD

Specifications

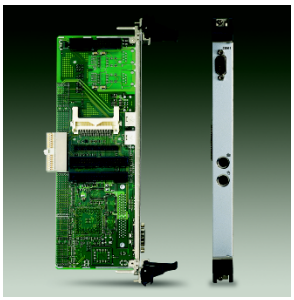
CompactPCI Connector	MIC-3302: J3 ~ J5, RIO-3301: J3, RIO-3302: J3 and J4, RIO-3302S: J1 ~ J4, RIO-3303: J3 ~ J4, RIO-3306: J3 and J5, RIO-3308: J3 ~ J5, RIO-3309C:J3, J5			
SCSI Controller	RIO-3302S : Adaptec AIC-7892B Ultra 160 SCSI controller chip			
Power	Power Consumption	+3.3 V 3 A	+5 V 2 A	+12 V 1 A
Environment		Operating		Non-Operating
	Temperature	0 ~ 60 °C (32 ~ 140 °F)		-20 ~ 80 °C (-4 ~ 176 °F)
	Humidity	--		5 ~ 95%, non-condensing
Physical	Dimensions (W x D)	233.35 x 80 mm (9.2" x 1.5"), 1-slot width		
	Weight	0.4 Kg (0.88 lb)		



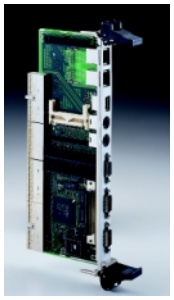
MIC-3302



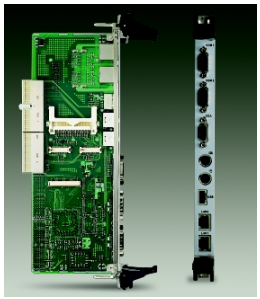
MIC-3302F



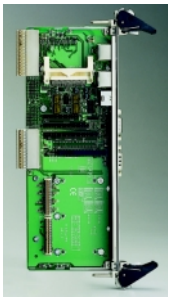
RIO-3301



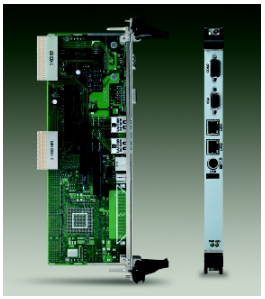
RIO-3302S



RIO-3303



RIO-3306/3308



RIO-3309C

Date of Publication: 2003-07-14

I/O Interfaces

I/O	Connector				Interface Location			
	MIC-3302/ RIO-3301/3302/3303	RIO-3306/3308	RIO-3308C/3308S	RIO-3309C	MIC-3302/ RIO-3301/3302/3303	RIO-3306/3308	RIO-3308C/3308S	RIO-3309C
Key Board	J3	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel
Mouse	J3	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel
COM1	J3	J5	J5	J5	Rear panel	Internal	Internal	Internal
CompactFlash	J3	J5	J5	--	Internal	Internal	Internal	NA
FDD	J3	J4	J4	J3	Internal	Internal	Internal	Internal
IDE	J3	J4	J4	J3	Internal	Internal	Internal	Internal
LAN	J4	J5	J5	--	Rear panel	Rear panel	Rear panel	--
GbE LAN	--	--	--	J5	--	--	--	Rear panel
USB	J4	J3	J5	J5	Rear panel	Internal	Rear panel	Rear panel/ Internal
VGA	J4	J4	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel
COM2	J4	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel
Ultra 160 SCSI (controller chip on board)	--	--	J1/J2	--	Internal	--	Internal	NA
Parallel	--	J4	J4	--	--	Internal	Internal	NA

* The difference between the RIO-3302 and RIO-3302S is that the latter provides the SCSI function on board.

Ordering Information

Part Number	Rear Panel I/O							On-board Header									Slot Width
	Keyboard	Mouse	COM	USB	LAN	VGA	SCSI	COM	USB	SCSI	IDE**** 40-pin	IDE**** 44-pin	FDD	CF Socket	PIM	Parallel	2.5" HDD Carrier	
MIC-3302-A	1	1	1	1	2	1	--	--	--	1	2	1	1	1	--	--	1	1
MIC-3302F-A	1	1	2	2	2	1	1	--	--	1	2	1	1	1	--	--	1	2
RIO-3301-A	1	1	1	--	--	--	--	1	--	--	2	1	1	1	--	--	Optional	1
RIO-3302-A	1	1	2	1	2	1	--	--	--	--	2	1	1	1	--	--	Optional	1
RIO-3302S-A	1	1	2	1	2	1	--	--	--	1***	2	1	1	1	--	--	Optional	1
RIO-3303-A	1	1	2	1	2	1	--	--	--	--	Slim type x 2		Slim type x 1	1	--	--	--	1
RIO-3306-A	1*		1	--	2	1	--	1**	1**	--	1	--	--	--	1	--	--	1
RIO-3308-A	1*		1	--	2	1	--	1**	1**	--	1	--	1	1	1	1**	--	1
RIO-3308C-A	1*		1	1	2	1	--	1	1	--	2	--	1	1	--	1**	--	1
RIO-3308S-A	1*		1	1	2	1	1	1	1	1***	2	--	1	1	--	1**	--	1
RIO-3309C-A	1*		1	1	2 (GbE)	1	--	1	1	--	1	--	1	--	--	1**	--	1

* Y cable is included.
** An optional extension adapter will extend a 2-slot width panel.
*** Only RIO-3302S/RIO-3308S has SCSI chipset on board.
**** The 40-pin and 44-pin connectors share the same bus; user can only use either one of the two connectors.