

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

6U CompactPCI® Rear Transition Boards

Introduction

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

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

The RIO-3302, RIO-3302S/SP, RIO-3303 use J3 and J4 connectors for I/O transfer and provide the same rear I/O interfaces. The only differences are that RIO-3302S provides an onboard 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 are for the slave CPU board MIC-3366.

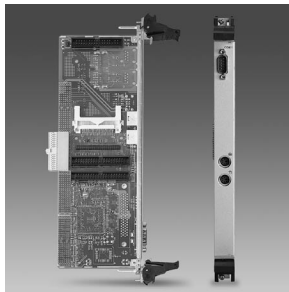
RIO-3309C/3309S is dedicated for the MIC-3358 and MIC-3369A series. RIO-3309L is dedicated for the MIC-3358L.

Features

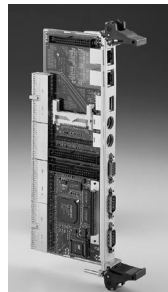
- External rear-panel interface connectors for CPU boards
- On-board CompactFlash socket
- Ultra 320 SCSI interface
- On-board bracket to carry a 2.5" HDD

Specifications

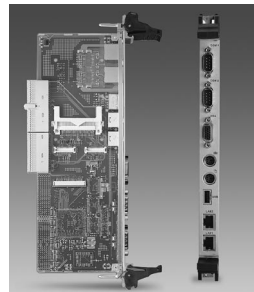
CompactPCI Connector	RIO-3301: J3, RIO-3302: J3 and J4, RIO-3302S/SP: J1 ~ J4, RIO-3303: J3 ~ J4, RIO-3306: J3 and J5, RIO-3308: J3 ~ J5, RIO-3309C: J3, J5, RIO-3309L: J3/J5, RIO-3309S: J1/J2/J3/J5			
SCSI Controller	RIO-3302S/SP: Adaptec AIC-7892B Ultra 160 SCSI controller chip RIO-3309S: Adaptec AIC-7901 Ultra 320 SCSI controller chip supports Raid 0, 1, 5			
Power	Power Consumption	+3.3 V	+5 V	+12 V
		3 A	2 A	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)		



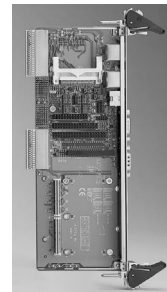
RIO-3301



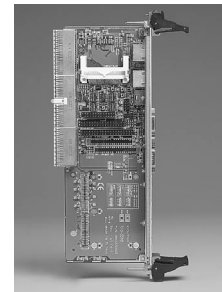
RIO-3302S



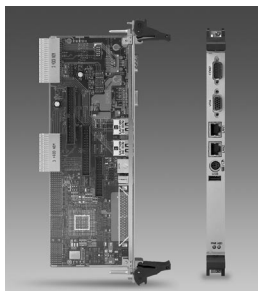
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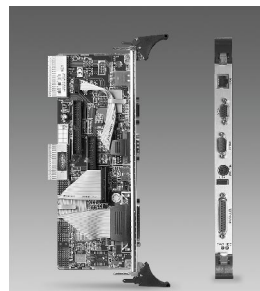
RIO-3306



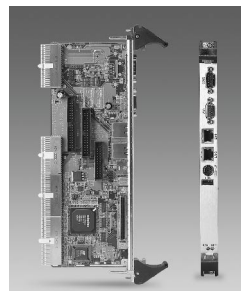
RIO-3308



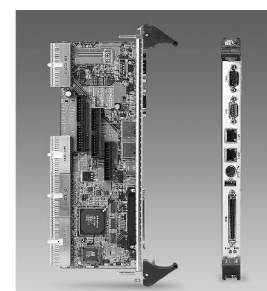
RIO-3309C



RIO-3309L



RIO-3309S-A1



RIO-3309S-A2

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

I/O Interfaces

I/O	Connector						Interface Location					
	RIO-3301/3302/3303	RIO-3306 RIO-3308	RIO-3308C RIO-3308S	RIO-3309C	RIO-3309L	RIO-3309S	RIO-3301/3302/3303	RIO-3306 RIO-3308	RIO-3308C RIO-3308S	RIO-3309C	RIO-3309L	RIO-3309S
Key Board	J3	J5	J5	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel
Mouse	J3	J5	J5	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel
COM1	J3	J5	J5	J5	J5	J5	Rear panel	Internal	Internal	Internal	Rear panel/Internal	Internal
CompactFlash	J3	J5	J5	--	--	--	Internal	Internal	Internal	NA	--	--
FDD	J3	J4	J4	J3	J3	J3	Internal	Internal	Internal	Internal	Internal	Internal
IDE	J3	J4	J4	J3	J3	J3	Internal	Internal	Internal	Internal	Internal	Internal
FE LAN	J4	J5	J5	--	J5	J5	Rear panel	Rear panel	Rear panel	--	Rear panel	Rear panel (optional)
GbE LAN	--	--	--	J5	--	J5	--	--	--	Rear panel	--	Rear panel
USB	J4	J3	J5	J5	J5	J5	Rear panel	Internal	Rear panel	Rear panel/ Internal	Rear panel/Internal	Rear panel
VGA	J4	J4	J5	J5	J5	J5	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel	Rear panel
COM2	J4	J5	J5	J5	--	J5	Rear panel	Rear panel	Rear panel	Rear panel	--	Rear panel
Ultra 160 SCSI (controller chip on board)	--	--	J1/J2	--	--	--	Internal	--	Internal	--	--	--
Ultra 320 SCSI (controller chip on board)	--	--	--	--	--	J1/J2	--	--	--	--	--	Rear panel/Internal
Parallel	--	J4	J4	--	J3	J3	--	Internal	Internal	--	Rear panel	Internal

Ordering Information

Part Number	Rear Panel I/O							On-board Header									Slot Width	
	Keyboard	Mouse	COM	USB	LAN	VGA	SCSI	COM	USB	SCSI	IDE****		FDD	CF Socket	PIM	Parallel		2.5" HDD Carrier
											40-pin	44-pin						
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-3302SP-A	1	1	2	1	2	1	1	--	--	1***	2	1	1	1	--	1	Optional	2
RIO-3303-A	1	1	2	1	2	1	--	--	--	--	Slim type x 2		Slim type x 1	1	--	--	--	1
RIO-3306-A	1*	1*	1	--	2	1	--	1**	1**	--	1	--	--	--	1	--	--	1
RIO-3308-A	1*	1*	1	--	2	1	--	1**	1**	--	1	--	1	1	1	1**	--	1
RIO-3308C-A	1*	1*	1	1	2	1	--	1	1	--	2	--	1	1	--	1**	--	1
RIO-3308S-A	1*	1*	1	1	2	1	--	1	1	1***	2	--	1	1	--	1**	--	1
RIO-3309C-A	1*	1*	1	1	2 (GbE)	1	--	1	1	--	1	--	1	--	--	1**	--	1
RIO-3309L	1*	1*	1	1	1	1	--	1	1	--	1	--	1	--	--	1	--	1
RIO-3309S-A1	1*	1*	1	1	2 (GbE)	1	--	1	1	1***	1	--	1	--	--	1	--	1
RIO-3309S-A2	1*	1*	1	1	2 (GbE)	1	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/RIO-3309S 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.