

RIO-3308C/RIO-3308S 6U CompactPCI™ Rear Transition card for MIC-3368C/E series

Packing List

Before installation, ensure that the following materials have been received:

- One RIO-3308C (or RIO-3308S) CompactPCI™ rear transition card
- One warranty certificate
- One startup Manual
- One CD disc and manual (in PDF format, for RIO-3308S only)

If any of these items are missing or damaged, contact your distributor or sales representative immediately.

Technical Support and Sales Assistance

If you have any technical questions about the RIO-3308C/S series or any other Advantech products, please visit our support website at:

- <http://www.advantech.com.tw/support>

For more information about Advantech's products and sales information, please visit:

- <http://www.advantech.com>

Introduction

The RIO-3308C/RIO-3308S is a CompactPCI 6U-sized rear transition board dedicated for MIC-3368C/E series. It provides access to the rear panel for the I/O function on Advantech's CompactPCI CPU board. See below table for the combinations of usage and note RIO may not allow to be used beyond this table shown.

	MIC-3368C-A	MIC-3368E-A	MIC-3368E1-A
RIO-3308C-A	V	V	V
RIO-3308S-A	--	V	V

Table-1: Combination of SBC and RIO

Warning:

Do not use improper RIO modules for Advantech CompactPCI processor boards which may cause board damage or mal-functions.

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Specification

SCSI Function (for RIO-3308S)

- **Controller** : Adaptec™ AIC-7901
- **Bus** : PCI 64-bit / 33Mhz
- **Channel** : Single SCSI channel
- **Data transfer rate** : The data channel DMA engine in the AIC-7901 supports data transfer rates up to 320MB/s of LVD SCSI I/Os.
- **Termination** : On-board terminators provided
- **Connector**: One 68-pin SCSI on board (internal) and one 68-pin SCSI on the panel

Standard functions

- **Ethernet**: Two LAN ports with RJ-45 connectors
- **VGA connector**: One DB-15 VGA connector
- **Serial port**: One DB-9 RS-232 port (COM2) and one header
- **USB interface**: One USB connectors and one header
- **EIDE interface**: Two connectors for IDE channels (Primary and Secondary channels)
- **FDD interface**: Supports one on-board floppy connector.
- **CompactFlash™ interface**: Supports one on-board CompactFlash™ socket
- **Keyboard/Mouse connector**: One 6-pin mini-DIN connector on rear panel
- **Parallel port connector**: One 26-pin header on board
- **CompactPCI connector**: J3/J4/J5 for RIO-3308C and J1~J5 for RIO-3308S

Indicator and Connector Location

The RIO-3308C/S series provides jumpers and connectors for users' specific applications.

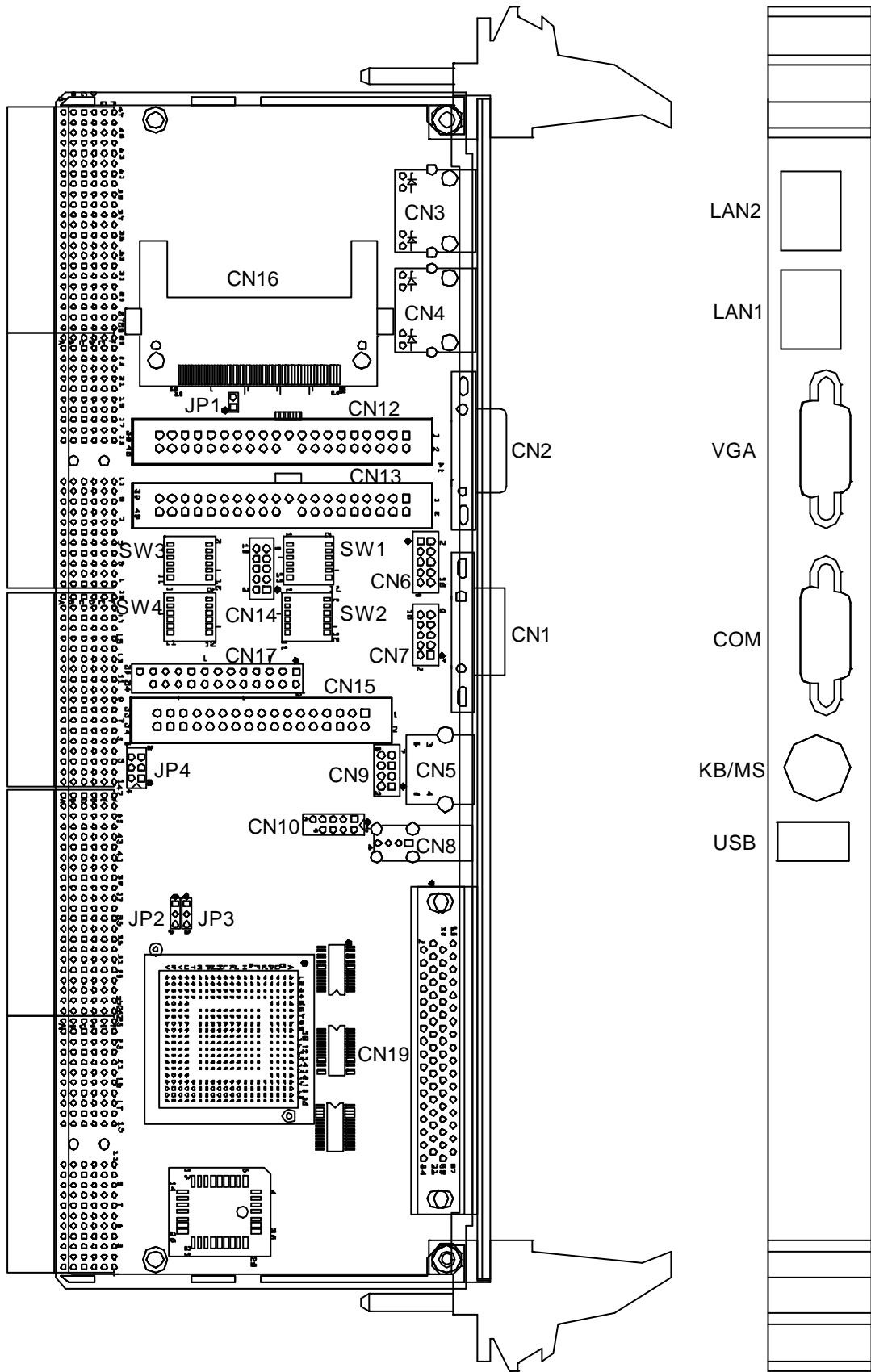


Figure 1-1: RIO-3308C/RIO-3308S Connector and jumper locations

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Table-2: RIO-3308C/RIO-3308S connector and jumper descriptions

Number	Function	RIO-3308C	RIO-3308S
JP1	CompactFlash™ master/slave selection	V	V
JP2/JP3	VIO for RIO (RIO-3308S only)	--	V
JP4	VIO for SCSI (RIO-3308C only)	V	V
SW1/SW2	RS-232/422/485 for COM2	V	V
SW3/SW4	RS-232/422/485 for COM1	V	V
CN1	COM 2 connector	V	V
CN2	VGA connector	V	V
CN3	LAN 2 connector	V	V
CN4	LAN 1 connector	V	V
CN5	PS/2 keyboard & mouse connector	V	V
CN8	USB 1 connector	V	V
CN10	USB 2 connector (header)	V	V
CN12	IDE secondary channel connector (40-pin)	V	V
CN13	IDE primary channel connector (40-pin)	V	V
CN14	COM 1 connector (header)	V	V
CN15	Parallel port connector	V	V
CN16	50-pin CompactFlash™ connector	V	V
CN17	Floppy connector	V	V
CN19	SCSI internal connector (RIO-3308S only)	--	V

Jumper Settings

JP1: CompactFlash™ master/slave selection

Master	1-2
Slave	2-3

JP2/JP3: VIO for RIO (RIO-3308S only)

PCI VIO	JP2	JP3
+5V	1-2	1-2
+3.3V	2-3	2-3

JP4: VIO for RIO (RIO-3308C only)

+5V	3-6
+3.3V	1-4 & 2-5

SW1/SW2: RS-232/422/485 for COM2 (Same as SW3/SW4 setting for COM1)

RS-232	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6
	OFF	ON	ON	ON	ON	ON
	SW2-1	SW2-2	SW2-3	SW2-4	SW2-5	SW2-6
	OFF	OFF	OFF	OFF	OFF	OFF
RS-422	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6
	ON	OFF	OFF	OFF	OFF	OFF
	SW2-1	SW2-2	SW2-3	SW2-4	SW2-5	SW2-6
	OFF	ON	ON	ON	ON	OFF
RS-485	SW1-1	SW1-2	SW1-3	SW1-4	SW1-5	SW1-6
	OFF	OFF	OFF	OFF	OFF	OFF
	SW2-1	SW2-2	SW2-3	SW2-4	SW2-5	SW2-6
	ON	ON	ON	ON	ON	OFF

Note:

The CompactFlash interface (CN16) uses a secondary IDE channel. Users need to set it as master or slave via jumper JP1 when another device is connected on the secondary IDE channel as a master or slave device.

Driver installation (for RIO-3308S only)

Device drivers and utilities for DOS, Windows2000/95/98/NT and SCO UNIX are included in the utility CD-ROM disc. The utility user's guide and installation instructions are provided in the utility CD-ROM disc. The instructions are located in the directory \RIO3308S\SCSI .