RP-708 I/O Connections

The RP-708 I/O connections are provided on the 68-pin front panel/bezel I/O receptacle connector, as well as the rear-I/O P14 (standard PMC) connector on the board, (as shown in the picture below).
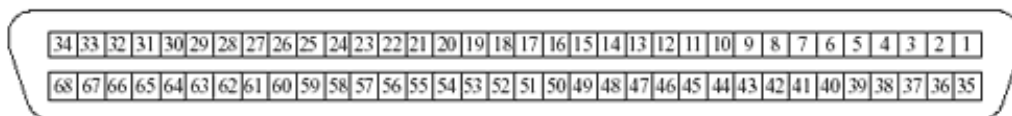

RP-708 Adapter Cable

To couple the RP-708 I/O connections to external devices, use the supplied RCONPMC-708 adapter cable for ARINC 708 bus connection to the 68-pin front panel/bezel I/O connector.

The RP-708 end of the RCONPMC-708 cable (P1) is equipped with a SCSI-3 68-pin connector with latch blocks for securing to the RP-708 bezel I/O connector rails. The adapter end of the RCONPMC-708 cable is equipped with two CJ70 twin-axial cable jack ends labeled as *J1 708 CH 1* and *J2 708 CH 2*.

See the P-708 User's Manual for instructions on proper connections to an ARINC 708 bus.

RP-708 Front Panel I/O Connector

The RP-708 bezel I/O connector is a SCSI-3 68-pin receptacle connector with a latch/rail securing design, having a pin orientation is shown below, (view facing the connector).

The RP-708 bezel I/O connector pin-out is shown in the following table.

RP-708A FRONT PANEL I/O CONNECTOR PIN-OUT			
Signal	**Pin**	**Signal**	**Pin**
Channel 0 +	1	Channel 0 -	35
Chassis [1]	2	Chassis [1]	36
Channel 1 +	3	Channel 1 -	37
Reserved	4	Reserved	38
Reserved	5	Reserved	39
Reserved	6	Reserved	40
Reserved	7	Reserved	41
Reserved	8	Reserved	42
Reserved	9	Reserved	43
Reserved	10	Reserved	44
Reserved	11	Reserved	45
Reserved	12	Reserved	46
Reserved	13	Reserved	47
Reserved	14	Reserved	48
Reserved	15	Reserved	49
Reserved	16	Not used	50
Not used	17	Not used	51
Not used	18	Not used	52
Not used	19	Not used	53
Not used	20	Not used	54
Reserved	21	Reserved	55
Reserved	22	Reserved	56
Reserved	23	Reserved	57
Reserved	24	Reserved	58
Reserved	25	Reserved	59
Reserved	26	Reserved	60
Reserved	27	Reserved	61
Reserved	28	Reserved	62
Reserved	29	Reserved	63
Reserved	30	Reserved	64
Reserved	31	Reserved	65
Reserved	32	Reserved	66
Reserved	33	Reserved	67
Ground [2]	34	Ground [2]	68

NOTES:

1   Chassis is tied to the mounting features of the card including the front panel and is isolated from Ground. Chassis is the preferred shield connection for Channel 0 and Channel 1 cables.

2   Ground can be used as a conductor shield if desired.

RP-708 P14 Rear-I/O Connector

RP-708A REAR-I/O P14 CONNECTOR PIN-OUT			
Signal	P14 Pin	Signal	P14 Pin
Channel 0 +	1	Channel 0 -	2
Chassis [1]	3	Chassis [1]	4
Channel 1 +	5	Channel 1 -	6
Reserved	7	Reserved	8
Reserved	9	Reserved	10
Reserved	11	Reserved	12
Not used	13	Not used	14
Reserved	15	Reserved	16
Reserved	17	Reserved	18
Reserved	19	Reserved	20
Reserved	21	Reserved	22
Reserved	23	Reserved	24
Reserved	25	Reserved	26
Reserved	27	Reserved	28
Reserved	29	Reserved	30
Reserved	31	Reserved	32
Reserved	33	Reserved	34
Reserved	35	Reserved	36
Reserved	37	Reserved	38
Reserved	39	Reserved	40
Not used	41	Not used	42
Reserved	43	Not used	44
Not used	45	Not used	46
Reserved	47	Reserved	48
Reserved	49	Reserved	50
Reserved	51	Reserved	52
Reserved	53	Reserved	54
Reserved	55	Reserved	56
Not used	57	Not used	58
Reserved	59	Not used	60
Not used	61	Not used	62
Not used	63	Not used	64

NOTES:

1   Chassis is tied to the mounting features of the card including the front panel and is isolated from Ground. Chassis is the preferred shield connection for Channel 0 and Channel 1 cables.

Alternate I/O Mating Connector

At publication of this document, the following mating connector was compatible with the 68-pin latched SCSI-3 connector provided on the RP-708A front panel.

RP-708 FRONT PANEL I/O MATING CONNECTOR			
Connector	**Part No**	**Description**	**Manufacturer**
P1	1-5750913-7	68 pin SCSI-3	AMP/Tyco