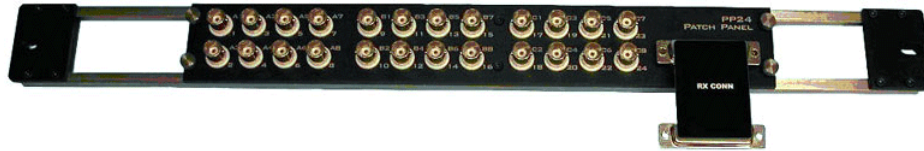


PP24 Patch Panel



Overview

The PP24 Patch Panel provides front panel, BNC connections for easy access to the digital and analog inputs and outputs of the RX and RZ processors.

Note: The PP16 Patch Panel is recommended for use with devices such as the If using the RP2.1 or RA16BA processors, Power Multiplexer (PM2R), or Power Amplifier (SA8).

The PCB Adapter Advantage

The PP24 is supplied with either an RX or RZ PCB adaptor that can be used with the corresponding processor type. The PCB provides better performance than ribbon cables, facilitating faster data transfer rates and improved signal to noise ratios.



Adjustable Positioning

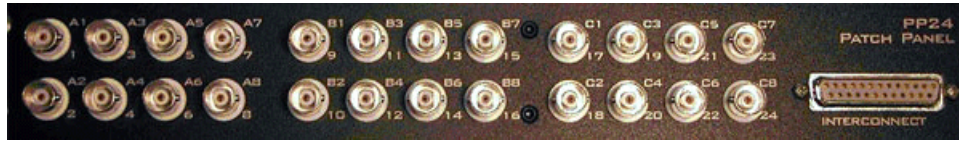
The PP24 is equipped with a 25-pin connector on the front panel. The PCB Adapter can be used to connect the PP24 to an RX device positioned either directly above or directly below the PP24 or an RZ processor positioned above the PP24. Four thumbscrews located on each corner of the PP24 front panel allow the user to slide the BNC array into the correct position to align the connector with the target device.



CAUTION: The thumbscrews should never be completely removed. Avoid loosening the thumbscrews too far.

Mapping the Inputs and Outputs for Each Device

The PP24 consists of 3 banks of BNC connectors, Bank A, B, and C. Each of the banks is labeled 1-8 within the set and each BNC is also numbered as part of the entire group from 1 - 24.



The following table shows the configuration of the BNC connectors for each I/O connector of the RX and RZ devices.

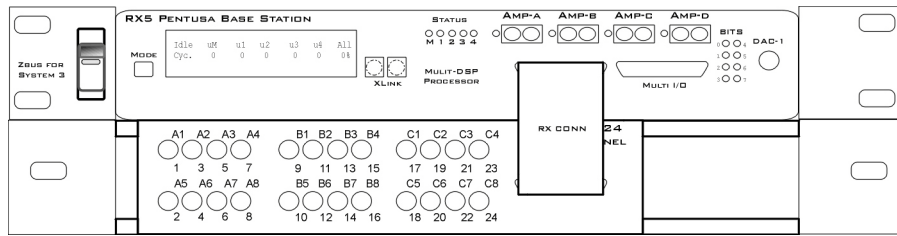
Device & Connector	A1-A8	B1-B8	C1-C8
RX5, RX6, RX7, RX8 Digital I/O Connector	Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 8-15
RX5, RX7 Multi I/O Connector	Analog Outputs A2, A4, A6, A8 = Channels 1-4 A1, A3, A5, A7 = Not Used	Digital I/O, Byte C Channels 16-23	Digital I/O, Byte D Channels 24-31
RX8 Analog I/O Connector	Analog I/O Block A Channels 1-8	Analog I/O Block B Channels 9-16	Analog Output Block C Channels 17-24
RZ2 Digital I/O Connector	Bit Addressable Digital I/O, Port C Channels 0-7	Digital I/O, Port A Channels 0-7	Digital I/O, Port B Channels 0-7
RZ2 Analog I/O Connector	Not Used	Analog Inputs Channels 1-8	Analog Outputs Channels 9-16
RZ5, RZ5D, RZ6 Digital I/O Connector	Bit Addressable Digital I/O, Byte C Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 0-7
RZ5, RZ5D Analog I/O Connector	Not Used	Analog Inputs Channels 1-4	Analog Outputs Channels 9-12

For more information, see the diagrams for the desired device below. Note that the RX5 and RX7 use the same Digital and Multi I/O mappings.

Mapping RX5 or RX7 I/O

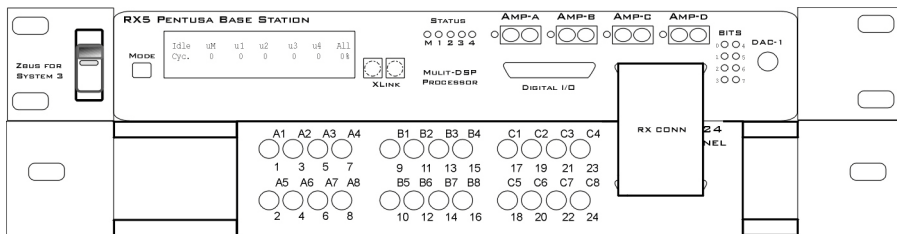
Note: The PP24 can be mounted above or below the RX5.

The diagram below maps the RX5 or RX7 **Digital I/O** connections to the PP24.



A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 8-15

The diagram below maps the RX5 or RX7 Multi I/O connections to the PP24.

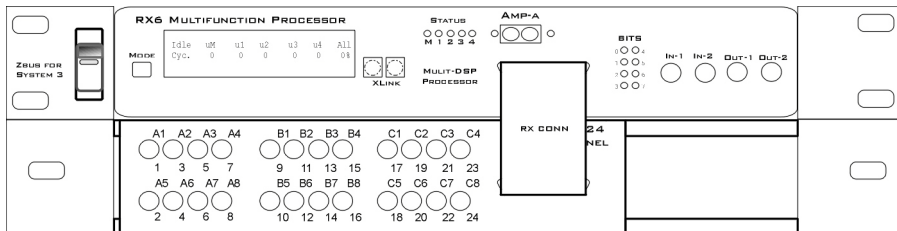


A1-A8	B1-B8	C1-C8
Analog Outputs A2, A4, A6, A8 = Channels 1-4 A1, A3, A5, A7 = Not Used	Digital I/O, Byte C Channels 16-23	Digital I/O, Byte D Channels 24-31

Mapping RX6 I/O

Note: The PP24 can be mounted above or below the RX6.

The diagram below maps the RX6 Digital I/O connection to the PP24.

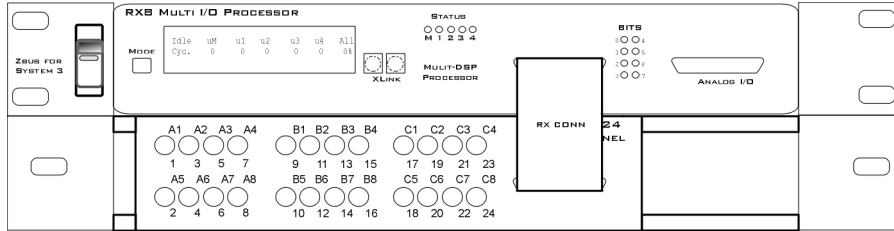


A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 8-15

Mapping RX8 I/O

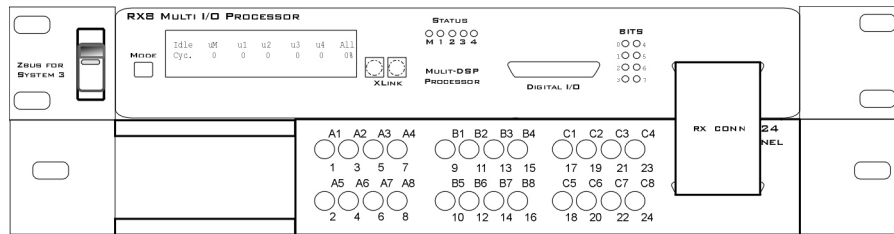
Note: The PP24 can be mounted above or below the RX8.

The diagram below maps the RX8 **Digital I/O** connection to the PP24.



A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 8-15

The diagram below maps the RX8 **Analog I/O** connection to the PP24.

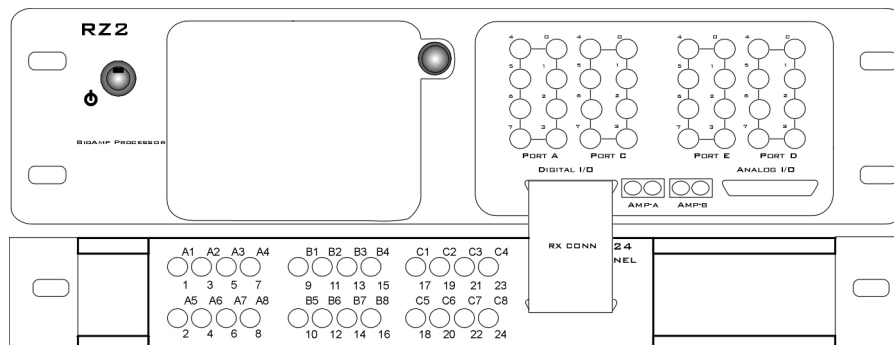


A1-A8	B1-B8	C1-C8
Analog I/O Block A Channels 1-8	Analog I/O Block B Channels 9-16	Analog Output Block C Channels 17-24

Mapping RZ2 I/O

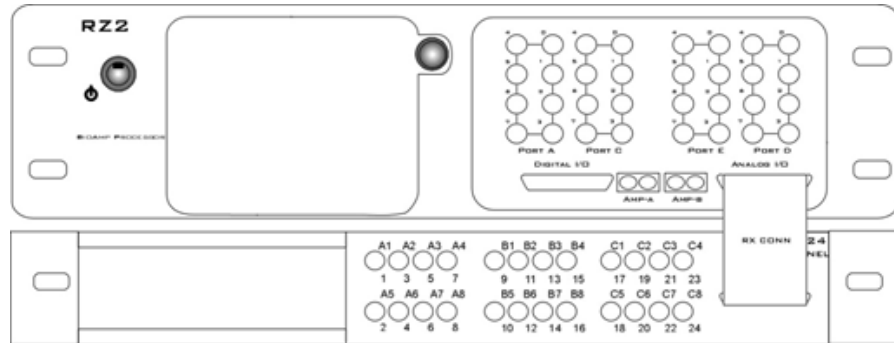
Note: The PP24 is mounted below the RZ2.

The diagram below maps the RZ2 **Digital I/O** connection to the PP24.



A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Port A Channels 0-7	Digital I/O, Port B Channels 0-7

The diagram below maps the RZ2 **Analog I/O** connection to the PP24.

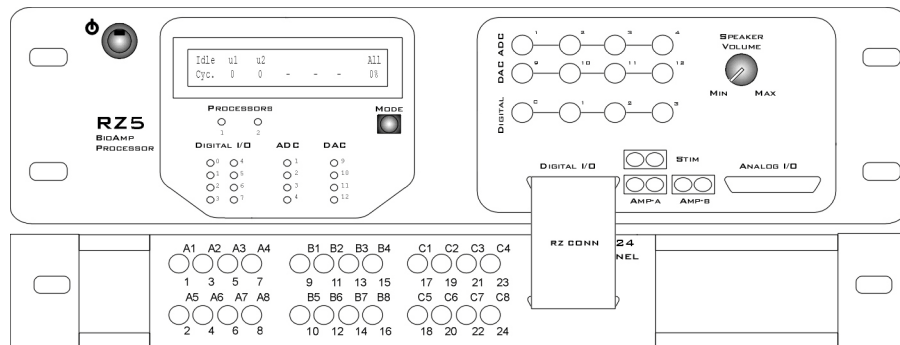


A1-A8	B1-B8	C1-C8
Not Used	Analog Input, Port D Channels 1-8	Analog Output, Port E Channels 9-16

Mapping RZ5, RZ5D I/O

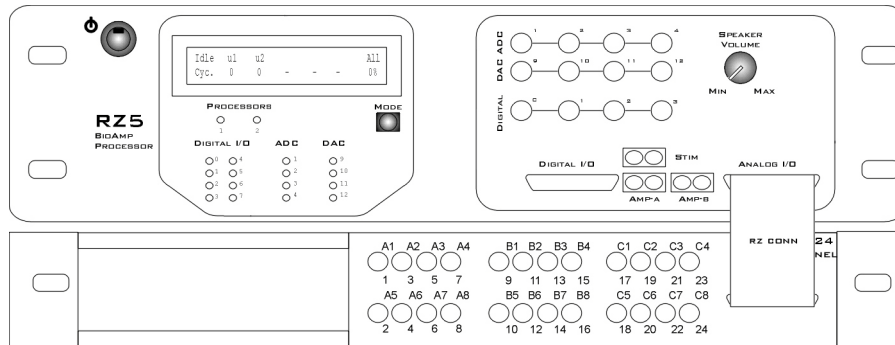
Note: The PP24 is mounted below the RZ5.

The diagram below maps the RZ5 or RZ5D **Digital I/O** connection to the PP24.



A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 0-7

The diagram below maps the RZ5 or RZ5D Analog I/O connection to the PP24.

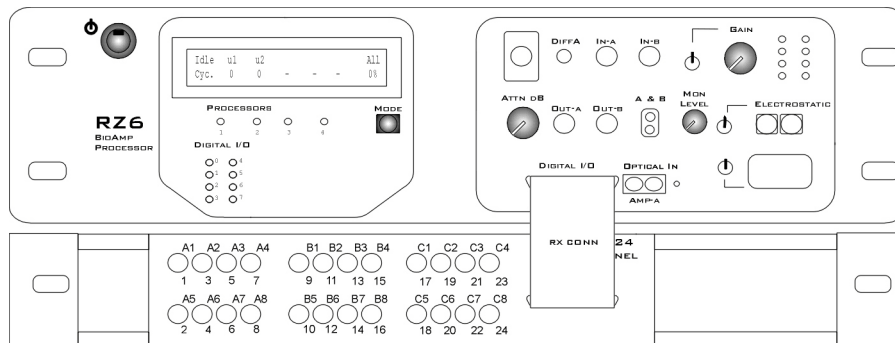


A1-A8, B5-B8, C5-C8	B1-B4	C1-C4
Not Used	Analog Input Channels 1-4	Analog Output Channels 9-12

Mapping RZ6 I/O

Note: The PP24 is mounted below the RZ6.

The diagram below maps the RZ6 Digital I/O connection to the PP24.



A1-A8	B1-B8	C1-C8
Bit Addressable Digital I/O Channels 0-7	Digital I/O, Byte A Channels 0-7	Digital I/O, Byte B Channels 0-7