

Cable Pinouts

C

This appendix lists the cables and connector pinout assignments for the cables used with the ERX-700 series and ERX-1400 series.

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SRP I/O Module

The SRP I/O module provides two management ports. You can connect a console directly to the RS-232 serial port using a shielded straight-through cable with a female DB-9 connector on one end and a male DB-25 with a crossover adapter on the DB-25 end. This port is called the serial port, the RS-232 port, or the console serial port. Figure C-1 shows the location of the serial port and the sequence of the pins in the RS-232 connector.

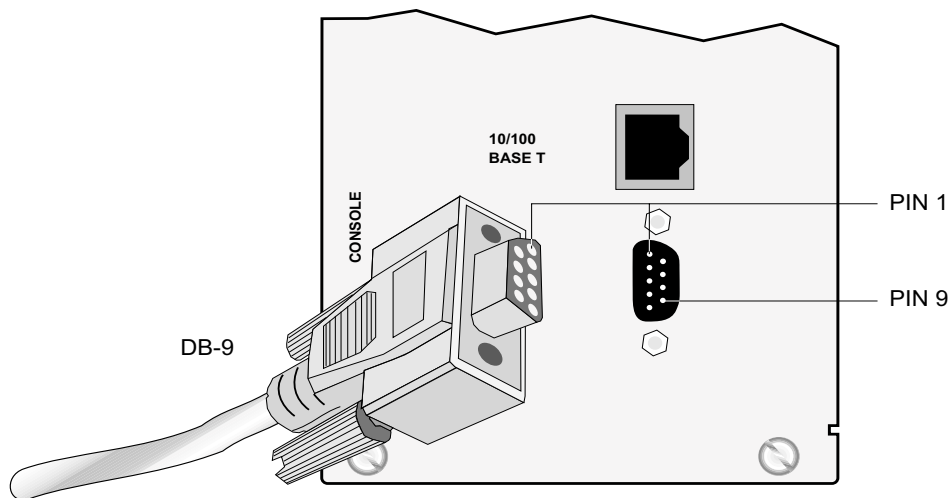


Figure C-1 SRP I/O module serial port

Table C-2 lists the pinout for the serial cable’s RS-232 connector.

Table C-1 SRP I/O module – RS-232 serial connector pinout

Pin	Signal
1	DCD
2	RXD
3	TXD
4	DTR
5	GND
6	DSR
7	RTS
8	CTS
9	RNG

Once you have configured an IP address on the system, you can connect a console running Telnet to the 10/100Base-T Ethernet port on the SRP I/O module. The system ships with a straight-through cable having a male RJ-45 Ethernet connector on each end. Figure C-2 shows the location of the Ethernet port and the sequence of the pins in the RJ-45 connector.

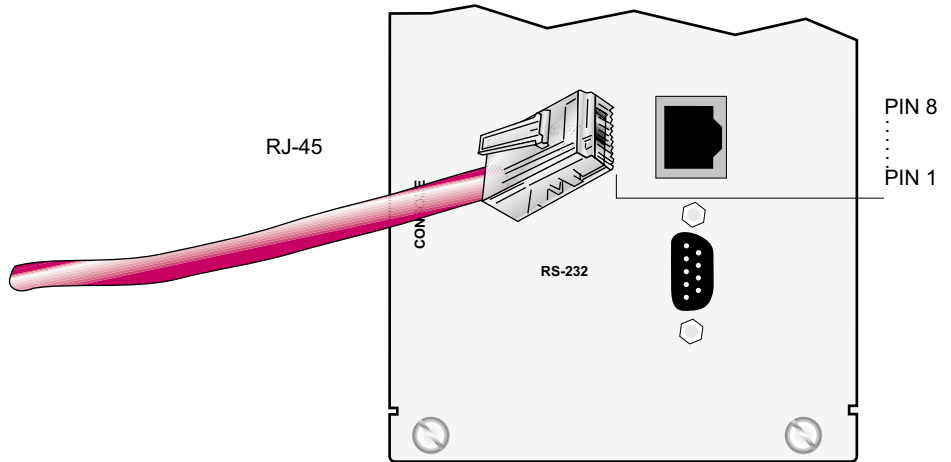


Figure C-2 SRP I/O module Ethernet port

Table C-2 lists the pinout for the Ethernet cable’s RJ-45 connector.

Table C-2 SRP I/O module – RJ-45 connector pinout

Pin	Signal
1	TX +
2	TX –
3	RX +
4	n/c
5	n/c
6	RX –
7	n/c
8	n/c

To facilitate connecting the system to a terminal, the system is shipped with one of each of the following cable adapters:

- DB-9 female to RJ-45 female crossover null modem adapter
- DB-9 female to RJ-45 female straight-through adapter

Table C-3 lists the pinout for the crossover adapter.

Table C-3 DB-9 – RJ-45 crossover adapter pinout

DB-9 Pin	Signal	RJ-45 Pin
1	DCD	1
2	RXD	3
3	TXD	2
4	DTR	6
5	GND	5
6	DSR	4
7	RTS	8
8	CTS	7
9	RNG	n/c

Table C-4 lists the pinout for the straight-through adapter.

Table C-4 DB-9 – RJ-45 straight-through adapter pinout

DB-9 Pin	RS-232 Signal Name	RJ-45 Pin	Ethernet Signal Name
1	DCD	1	TX +
2	RXD	2	TX –
3	TXD	3	RX +
4	DTR	4	n/c
5	GND (signal)	5	n/c
6	DSR	6	RX –
7	RTS	7	n/c
8	CTS	8	n/c
9	RNG	n/c	none

CT1 and CE1 I/O Modules

CT1 I/O modules have 24 RJ-48C female connectors. CE1 I/O modules have either 20 RJ-48C female connectors or two 25-pair female Telco connectors. Figure C-3 shows the location of the ports on a CT1 I/O module and the sequence of the pins in the RJ-48C connector. CE1 I/O modules equipped with RJ-48C connectors have the same configuration as CT1 I/O modules equipped with RJ-48C connectors.

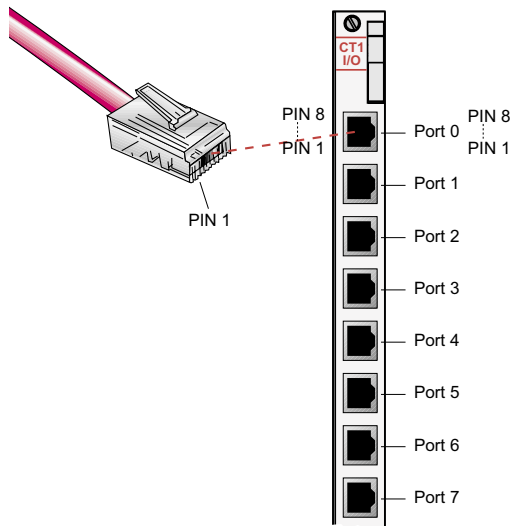


Figure C-3 CT1 I/O module ports

Table C-5 lists the pinout for the CT1/CE1 connector.

Table C-5 CT1/CE1 I/O module – RJ-48C connector pinout

Pin	Signal
1	RX Ring
2	RX Tip
3	n/c
4	TX Ring
5	TX Tip
6	n/c
7	n/c
8	n/c

For CE1 I/O modules with Telco connectors, the other ends of the cables are attached to a balun panel that splits the signals from two Telco connectors to 20 pairs of BNC connectors. We supply the Telco cables if you purchase a balun panel. Figure C-4 shows the location of the Telco connectors on a CE1 I/O module and the sequence of the pins in the connectors.

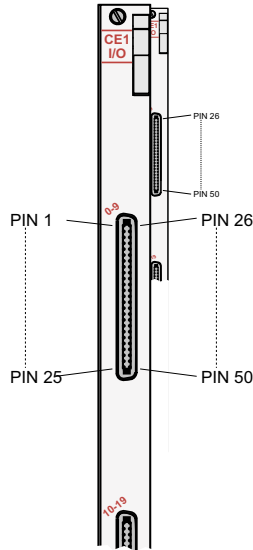


Figure C-4 CE1 I/O module with Telco connectors

Figure C-5 shows the location of the 20 pairs of BNC connectors on a balun panel. The cables from the CE1 I/O module are plugged into the two 50-pin Telco connectors on the other side of the panel.

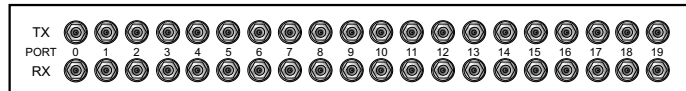


Figure C-5 Twenty-port balun panel

Table C-6 lists the pinout for the Telco connectors on each cable.

Table C-6 Pinout of 50-pin Telco connector to ports 0–9

Pin	Signal	Pin	Signal
1	Port 0 RX TIP	26	Port 0 RX RING
2	Port 0 TX TIP	27	Port 0 TX RING
3	Port 1 RX TIP	28	Port 1 RX RING
4	Port 1 TX TIP	29	Port 1 TX RING
5	Port 2 RX TIP	30	Port 2 RX RING
6	Port 2 TX TIP	31	Port 2 TX RING
7	Port 3 RX TIP	32	Port 3 RX RING
8	Port 3 TX TIP	33	Port 3 TX RING

Table C-6 Pinout of 50-pin Telco connector to ports 0–9 (continued)

Pin	Signal	Pin	Signal
9	Port 4 RX TIP	34	Port 4 RX RING
10	Port 4 TX TIP	35	Port 4 TX RING
11	Port 5 RX TIP	36	Port 5 RX RING
12	Port 5 TX TIP	37	Port 5 TX RING
13	Port 6 RX TIP	38	Port 6 RX RING
14	Port 6 TX TIP	39	Port 6 TX RING
15	Port 7 RX TIP	40	Port 7 RX RING
16	Port 7 TX TIP	41	Port 7 TX RING
17	Port 8 RX TIP	42	Port 8 RX RING
18	Port 8 TX TIP	43	Port 8 TX RING
19	Port 9 RX TIP	44	Port 9 RX RING
20	Port 9 TX TIP	45	Port 9 TX RING
21	n/c	46	n/c
22	n/c	47	n/c
23	n/c	48	n/c
24	n/c	49	n/c
25	n/c	50	n/c

Table C-7 Pinout of 50-pin Telco connector to ports 10–19

Pin	Signal	Pin	Signal
1	Port 10 RX TIP	26	Port 10 RX RING
2	Port 10 TX TIP	27	Port 10 TX RING
3	Port 11 RX TIP	28	Port 11 RX RING
4	Port 11 TX TIP	29	Port 11 TX RING
5	Port 12 RX TIP	30	Port 12 RX RING
6	Port 12 TX TIP	31	Port 12 TX RING
7	Port 13 RX TIP	32	Port 13 RX RING
8	Port 13 TX TIP	33	Port 13 TX RING
9	Port 14 RX TIP	34	Port 14 RX RING
10	Port 14 TX TIP	35	Port 14 TX RING
11	Port 15 RX TIP	36	Port 15 RX RING
12	Port 15 TX TIP	37	Port 15 TX RING
13	Port 16 RX TIP	38	Port 16 RX RING
14	Port 16 TX TIP	39	Port 16 TX RING

Table C-7 Pinout of 50-pin Telco connector to ports 10–19 (continued)

Pin	Signal	Pin	Signal
15	Port 17 RX TIP	40	Port 17 RX RING
16	Port 17 TX TIP	41	Port 17 TX RING
17	Port 18 RX TIP	42	Port 18 RX RING
18	Port 18 TX TIP	43	Port 18 TX RING
19	Port 19 RX TIP	44	Port 19 RX RING
20	Port 19 TX TIP	45	Port 19 TX RING
21	n/c	46	n/c
22	n/c	47	n/c
23	n/c	48	n/c
24	n/c	49	n/c
25	n/c	50	n/c