Pin Assignments

This appendix describes the electrical connections of ports on the Cisco 6200 advanced digital subscriber line access multiplexer (DSLAM).

This appendix provides the following pin assignments:

- UTP connectors: 10 female Champ connectors for subscriber traffic. The Champ connectors on the rear of the chassis present the same interface as the Champ connectors on the dangler cables (J1 to J10). (The dangler cables attach to the backplane UTP connectors shown in Figure A-1.)
- Alarm relay connector: a 34-pin male connector (J39) for alarm relay signals.
- Auxiliary port: a 9-pin female D-type connector (J40) for an auxiliary port.
- Console port: an RJ-45 connector marked CNSL on the management processor card (MPC).
- Ethernet management port: an RJ-45 connector marked ENET on the MPC.

Refer to Figure A-1 for the locations of the connectors on the rear of the chassis.

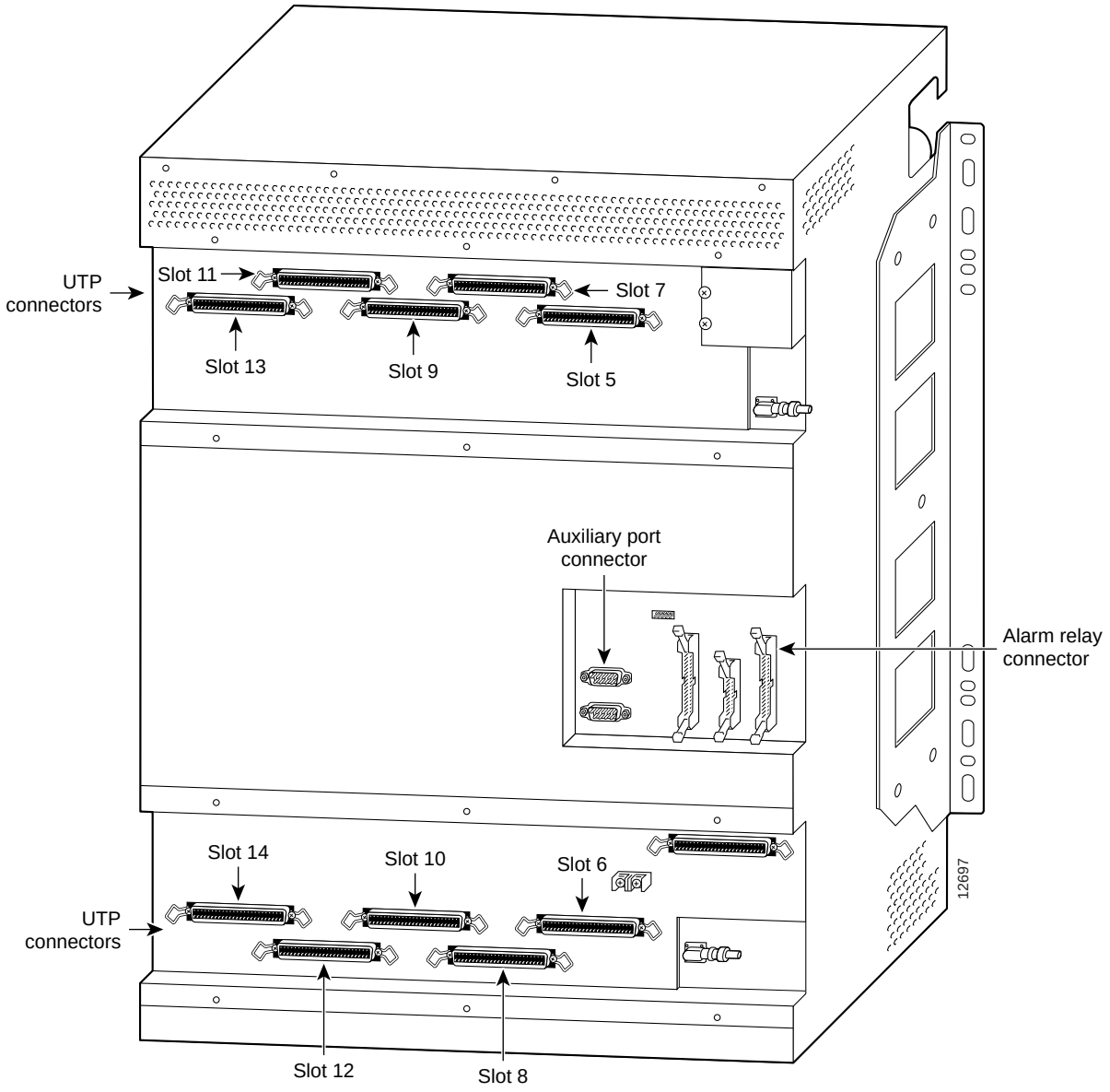
Items Not Used in This Release

The following fixtures are not used in this release. Except where otherwise indicated, these items are located on the rear panel of the DSLAM.

- A 10-pin jumper (J36) for setting the shelf ID (located on the inside of the backplane)
- Two connectors (J014 and J034) for redundancy switching
- A 50-pin male Champ connector (J41) for a T1 line
- A 10-pin jumper (J42) for clocking
- A 9-pin female D-type connector (J44) for a serial port to a secondary MPC
- A 34-pin male connector (J45) for alarm relay signals from a secondary MPC
- Two BNC connectors (J47 and J48) for a DS3 line
- Two BNC connectors on the front of the chassis. One is under the fan tray; the other is in a recessed area to the left of the power entry modules (PEMs). (These connectors are present on only a few systems.)
- Two BNC connectors (ETH1/J65 and ETH2/J66) for 10Base2 (Thinnet/RG-58) Ethernet

Caution Do not remove the terminators from the BNC connectors. Doing so prevents the cards within the chassis from communicating with each other.

Figure A-1 Rear View of Cisco 6200 Chassis Showing Connector Placement



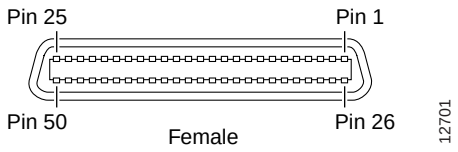
A.1 UTP Connectors for Subscriber Traffic

Ten 50-pin Champ connectors on the backplane provide unshielded twisted pair (UTP) connections that carry ADSL signals (subscriber traffic) between the Cisco 6200 DSLAM and the POTS splitter. Attached to each connector is a dangler cable. One end of the dangler cable mates with the Cisco 6200 backplane; the other end terminates with a female 50-pin Champ connector.

Each Champ connector on the backplane, and thus each dangler cable, serves one subscriber line card (SLC) slot in the Cisco 6200 chassis. The ten dangler cables, J1 through J10, serve slots 5 through 14 respectively. The pinout for the connectors is provided in Table A-1.

Table A-1 Pin Assignments for Connectors J1 to J10

Pin Number	Wire Color	TIP/RING	Port Number	Pin Number	Wire Color	TIP/RING	Port Number
26	White/blue	TIP	00	39	Black/brown	TIP	13
1	Blue/white	RING		14	Brown/black	RING	
27	White/orange	TIP	01	40	Black/gray	TIP	14
2	Orange/white	RING		15	Gray/black	RING	
28	White/green	TIP	02	41	Yellow/blue	TIP	15
3	Green/white	RING		16	Blue/yellow	RING	
29	White/brown	TIP	03	42	Yellow/orange	TIP	–
4	Brown/white	RING		17	Orange/yellow	RING	
30	White/gray	TIP	04	43	Yellow/green	TIP	–
5	Gray/white	RING		18	Green/yellow	RING	
31	Red/blue	TIP	05	44	Yellow/brown	TIP	–
6	Blue/red	RING		19	Brown/yellow	RING	
32	Red/orange	TIP	06	45	Yellow/gray	TIP	–
7	Orange/red	RING		20	Gray/yellow	RING	
33	Red/green	TIP	07	46	Violet/blue	TIP	–
8	Green/red	RING		21	Blue/violet	RING	
34	Red/brown	TIP	08	47	Violet/orange	TIP	–
9	Brown/red	RING		22	Orange/violet	RING	
35	Red/gray	TIP	09	48	Violet/green	TIP	–
10	Gray/red	RING		23	Green/violet	RING	
36	Black/blue	TIP	10	49	Violet/brown	TIP	–
11	Blue/black	RING		24	Brown/violet	RING	
37	Black/orange	TIP	11	50	Violet/gray	TIP	–
12	Orange/black	RING		25	Gray/violet	RING	
38	Black/green	TIP	12				
13	Green/black	RING					



A.2 Alarm Relay Connector

Table A-2 lists the pin assignments for backplane connector J39, the alarm relay connector. The alarm relays provide relay contact closures. If you connect the alarm relays, they transmit critical, major, and minor alarms to a separate, external alarm device. The alarm device uses a bell, light, or some other signal to alert people to the change in status. For general information on the alarm relay feature, see "Alarm Relay Connection" in Chapter 1, "Hardware Description."

The alarm relay connector provides an alarm cut-off circuit that you can wire to your external alarm device. Connect the alarm device so that it can close the contact between pins 13 (ACO C) and 30 (ACO O) on the Cisco 6200 alarm relay.

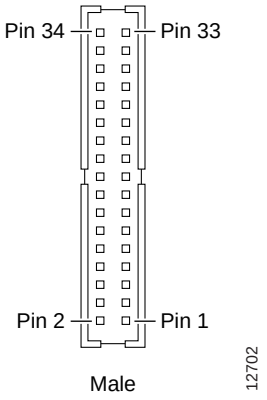
The alarm relay connector also provides one set of contacts for audible alarms and one set for visual alarms. In Table A-2, audible alarms signals begin with "AUD" and visible alarm signals begin with "VIS." You can use either or both sets of contacts.

You can wire the alarm relay contacts as normally open (NO) or normally closed (NC). Common (CO) pins are used in both cases:

Wiring Method	Pins to Use
Normally open	18 through 23 (NO) 9 through 11 (CO) 26 through 28 (CO)
Normally closed	1 through 6 (NC) 9 through 11 (CO) 26 through 28 (CO)

Table A-2 Pin Assignments for the Alarm Relay Connector

Pin Number	Signal	Pin Number	Signal
1	VIS CRITICAL NC A	18	VIS CRITICAL NO A
2	VIS MAJOR NC A	19	VIS MAJOR NO A
3	VIS MINOR NC A	20	VIS MINOR NO A
4	AUD CRITICAL NC A	21	AUD CRITICAL NO A
5	AUD MAJOR NC A	22	AUD MAJOR NO A
6	AUD MINOR NC A	23	AUD MINOR NO A
7	Reserved NC A	24	Reserved NO A
8	Unused	25	Reserved NO A
9	VIS MAJOR CO A	26	VIS CRITICAL CO A
10	AUD CRITICAL CO A	27	VIS MINOR CO A
11	AUD MINOR CO A	28	AUD MAJOR CO A
12	Reserved NC A	29	Unused
13	ACO C	30	ACO O
14	Digital GND	31	Digital GND
15	Digital GND	32	Digital GND
16	Digital GND	33	Digital GND
17	Digital GND	34	Digital GND

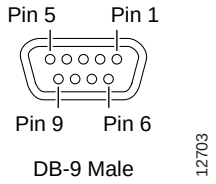


A.3 Auxiliary Port

J40 is a 9-pin male connector on the backplane for an EIA/TIA-232 serial port connecting to the management processor card (MPC). J40 is an auxiliary port that can be used to connect devices such as terminals, modems, or laptop computers to the Cisco 6200. Table A-3 shows the pin assignments.

Table A-3 Pin Assignments for the Auxiliary Port

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

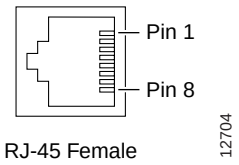


A.4 Console Port

The console port, a serial EIA/TIA-232, uses an RJ-45 connector on the MPC faceplate. Table A-4 shows the pin assignments.

Table A-4 Pin Assignments for the MPC Console Connector

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

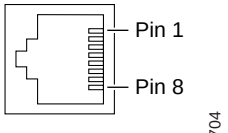


A.5 Ethernet Management Port

The Ethernet port, a 10BaseT interface with an RJ-45 connector, is on the MPC faceplate. It is used to connect the Cisco 6200 to the management station, a PC running Cisco 6200 Manager software. Table A-5 shows the pin assignments.

Table A-5 Pin Assignments for the MPC Management Ethernet Connector

Pin Number	Signal
1	TX+
2	TX–
3	RX+
4	Unused
5	Unused
6	RX–
7	Unused
8	Unused



RJ-45 Female

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