



Connector and Cable Specifications

This appendix provides the following cabling and pinout information for the Cisco IAD1101 integrated access device:

- Console Port Signals and Pinouts
- Ethernet Connector Pinouts
- Analog Subscriber Connector Signals and Pinouts
- T1 Port Pinouts
- Serial Port (V.35) Connector Signals and Pinouts



Note

This appendix specifies pinouts only for the pins used. Pins not listed in the tables in this appendix are not connected.

Console Port Signals and Pinouts

Use the yellow Ethernet (straight) cable and RJ-45-to-DB-9 female DTE adapter to connect the console port to the serial port on a Windows NT workstation with EMS and Dial-up Networking installed. Table B-1 lists the pinouts for the asynchronous serial console port, the RJ-45-to-DB-9 female DTE adapter, and the workstation serial port.



Note

To configure your Windows NT workstation for Dial-up Networking access to the Cisco IAD1101 through the console port, see the *RS-232 Connection* application note.

Table B-1 Console Port Signaling and Cabling Using a DB-9 Adapter

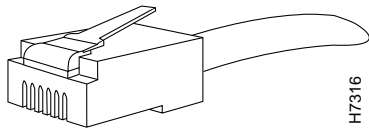
Console Port (DTE)		RJ-45 to DB-9 Adapter		Workstation Serial Port
Signal	Pin Type	RJ-45 Pin	DB-9 Pin	Signal
No Signal	—	1	9	RI
RD_TX_MISC	Output	2	1	DCD
DTR	Input	3	4	DTR
GND	Ground	4	5	GND
TxD	Output	5	2	RxD

Table B-1 Console Port Signaling and Cabling Using a DB-9 Adapter (continued)

Console Port (DTE)		RJ-45 to DB-9 Adapter		Workstation Serial Port
Signal	Pin Type	RJ-45 Pin	DB-9 Pin	Signal
RxD	Input	6	3	TxD
RD_TX_MISC	Output	7	8	CTS
No Signal	—	8	7	RTS
		—	6	DSR

Ethernet Connector Pinouts

Figure B-1 shows the Ethernet 10BaseT connector (RJ-45) and Table B-2 lists its pinouts.

Figure B-1 10BaseT Connector**Table B-2 10BaseT Connector (RJ-45) Pinouts**

Pin	Description
1	TX+
2	TX-
3	RX+
4	—
5	—
6	RX-
7	—
8	—

Analog Subscriber Connector Signals and Pinouts

Figure B-2 shows the analog subscriber connector (Amp-Champ) and Table B-3 lists its pinouts.

Figure B-2 Analog Subscriber Connector

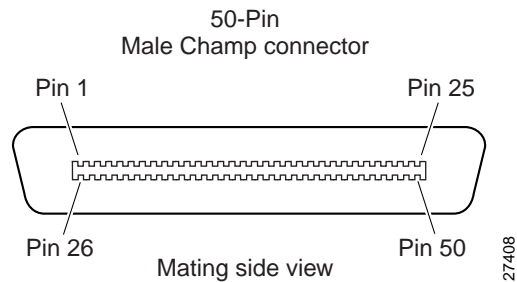


Table B-3 Analog Subscriber Connector Pinouts

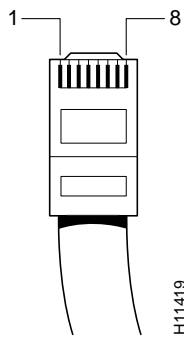
Circuit	Pin (Ring)	Pin (Tip)
FXS 1	1	26
FXS 2	2	27
FXS 3	3	28
FXS 4	4	29
FXS 5	5	30
FXS 6	6	31
FXS 7	7	32
FXS 8	8	33
FXS 9	9	34
FXS 10	10	35
FXS 11	11	36
FXS 12	12	37
FXS 13	13	38
FXS 14	14	39
FXS 15	15	40
FXS 16	16	41
Expansion 1	17	42
Expansion 2	18	43
Expansion 3	19	44
Expansion 4	20	45
Expansion 5	21	46
Expansion 6	22	47
Expansion 7	23	48

Table B-3 Analog Subscriber Connector Pinouts (continued)

Circuit	Pin (Ring)	Pin (Tip)
Expansion 8	24	49
Not Used	25	50

T1 Port Pinouts

Figure B-3 shows the RJ-48 connector wiring for the T1 trunk cable, and Table B-4 lists the pinouts.

Figure B-3 RJ-48-to-RJ-48 T1 Cable Wiring**Table B-4** T1 Port (RJ-48) Pinouts

Pin	Description
1	RX Tip
2	RX Ring
3	—
4	TX Tip
5	TX Ring
6	—
7	—
8	—

Serial Port (V.35) Connector Signals and Pinouts

The serial port on the Cisco IAD1101 is a 26-pin connector supporting V.35 DTE connections.

Serial (26-pin) to V.35 Cable Assembly

Figure B-4 shows the wiring for the serial to V.35 cable, and Table B-5 lists the DCE pinouts. Arrows indicate signal direction: \rightarrow means DTE to DCE and \leftarrow means DCE to DTE.

Figure B-4 26-Pin Serial DTE to V.35 DCE Cable Wiring

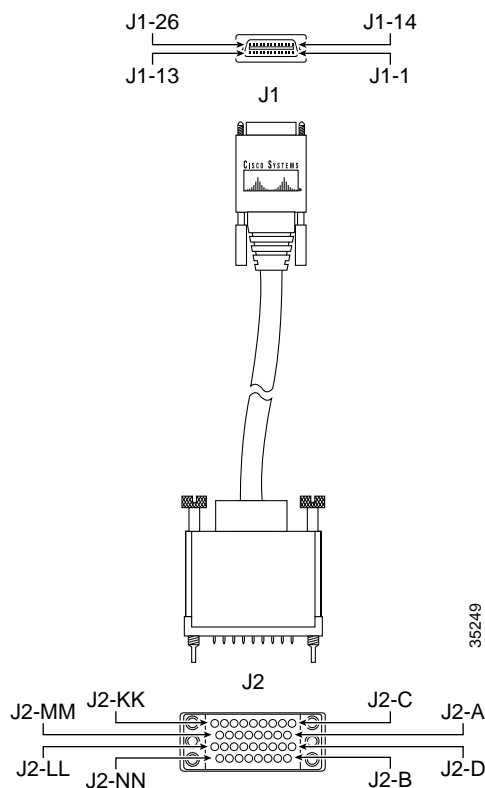


Table B-5 V.35 DCE Serial Cable Pinout

Serial Connector Pin	Signal Name	Note	Direction	Signal Name	V.35 Pin
J1-22	MODE_1	Local connections			
J1-23	MODE_0				
Drain wire		Shield	—	Shield_GND	J2-A
J1-11	I_CTS/RTS+	Twisted pair #4	\rightarrow	RTS	J2-C
J1-12	I_DSR/DTR+		\rightarrow	DTR	J2-H
J1-08	O_RTS/CTS+	Twisted pair #2	\leftarrow	CTS	J2-D
J1-07	O_DTR/DSR+		\leftarrow	DSR	J2-E
J1-06	B_DCD/DCD+	Twisted pair #1	\rightarrow	RLSD	J2-F
J1-19	GND_		—	GND	

Table B-5 V.35 DCE Serial Cable Pinout (continued)

Serial Connector Pin	Signal Name	Note	Direction	Signal Name	V.35 Pin
J1-13 J1-26	B_LL/LL+ GND	Twisted pair #3	<— —	LT GND	J2-K J2-B
J1-05 J1-18	I_RXD/TXD+ I_RXD/TXD-	Twisted pair #5	—> —>	SD+ SD-	J2-P J2-S
J1-01 J1-14	O_TXD/RXD+ O_TXD/RXD-	Twisted pair #9	<— <—	RD+ RD-	J2-R J2-T
J1-04 J1-17	I_RXC/TXCE+ I_RXC/TXCE-	Twisted pair #6	—> —>	SCTE+ SCTE-	J2-U J2-W
J1-02 J1-15	O_TXCE/RXC+ O_TXCE/RXC-	Twisted pair #8	<— <—	SCR+ SCR-	J2-V J2-X
J1-03 J1-16	B_TXC/TXC+ B_TXC/TXC-	Twisted pair #7	—> —>	SCT+ SCT-	J2-Y J2-AA

Serial (26-pin) to Serial (26-pin) Cable Assembly

Figure B-5 shows the wiring for the 26-pin serial DTE to serial DCE cable, and Table B-6 lists the pinouts. Arrows indicate signal direction: —> means DTE to DCE and <— means DCE to DTE.

Figure B-5 26-Pin Serial DTE to 26-Pin Serial DCE Cable Wiring

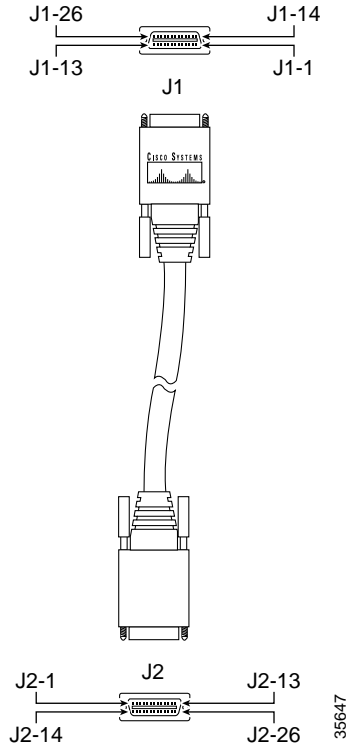


Table B-6 DTE to DCE Serial Cable Pinout

DTE Serial Pin	Signal Name	Note	Direction	Signal Name	DCE Serial Pin
J1-22	MODE_1	Local connections		MODE_1	J2-22
J1-23	MODE_0			MODE_0	J2-23
J1-24	MODE_DCE				
		Shield	—		
J1-08	O_RTS/CTS+	Twisted pair #4	—>	I_CTS/RTS+	J2-11
J1-07	O_DTR/DSR+		—>	I_DSR/DTR+	J2-12
J1-11	I_CTS/RTS+	Twisted pair #2	<—	O_RTS/CTS+	J2-08
J1-12	I_DSR/DTR+		<—	O_DTR/DSR+	J2-07
J1-06	B_DCD/DCD+	Twisted pair #1	<—	B_DCD/DCD+	J2-06
J1-19	GND_		—	GND_	J2-19
J1-13	B_LL/LL+	Twisted pair #3	—>	B_LL/LL+	J2-13
J1-26	GND		—	GND	J2-26
J1-01	O_TXD/RXD+	Twisted pair #5	—>	I_RXD/TXD+	J2-05
J1-14	O_TXD/RXD-		—>	I_RXD/TXD-	J2-18
J1-05	I_RXD/TXD+	Twisted pair #9	<—	O_TXD/RXD+	J2-01
J1-18	I_RXD/TXD-		<—	O_TXD/RXD-	J2-14
J1-02	O_TXCE/RXC+	Twisted pair #6	—>	I_RXC/TXCE+	J2-04
J1-15	O_TXCE/RXC-		—>	I_RXC/TXCE-	J2-17
J1-04	I_RXC/TXCE+	Twisted pair #8	<—	O_TXCE/RXC+	J2-02
J1-17	I_RXC/TXCE-		<—	O_TXCE/RXC-	J2-15
J1-03	B_TXC/TXC+	Twisted pair #7	<—	B_TXC/TXC+	J2-03
J1-16	B_TXC/TXC-		<—	B_TXC/TXC-	J2-16

