



Overview

This chapter describes the V.35 synchronous serial port adapter (PA-8T-V35[=]) and contains the following sections:

- [Port Adapter Overview, page 1-1](#)
- [Serial Interface Specifications, page 1-2](#)
- [LEDs, page 1-3](#)
- [Cables and Pinouts, page 1-4](#)
- [Port Adapter Slot Locations on the Supported Platforms, page 1-14](#)
- [Identifying Interface Addresses, page 1-21](#)

Port Adapter Overview

The Cisco PA-8T-V.35, shown in [Figure 1-1 on page 1-2](#), provides up to eight synchronous serial interfaces for the chassis. The PA-8T-V.35 network interfaces provide a direct connection between the high-speed bus in the router and external networks. Each PA-8T-V.35 interface provides full-duplex (FDX) operation at T1 (1.544 Mbps) and E1 (2.048 Mbps) speeds. The V.35 interface is most commonly used in the United States and throughout Europe.

All eight PA-8T-V.35 interfaces connect to external networks through a single port that has a 200-pin, D-shell receptacle. You must use a V.35 compact serial cable to connect PA-8T-V.35 interfaces to an external data service unit (DSU) or channel service unit (CSU). The compact serial cable attached to the single receptacle determines the mode (DCE or DTE) for all eight interfaces.

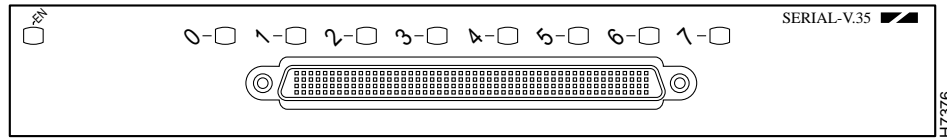


Note

Although the Cisco 7304 PCI Port Adapter Carrier Card in the Cisco 7304 router, Catalyst RSM/VIP2, the Catalyst 6000 family FlexWAN module, and the VIP support online insertion and removal (OIR), individual port adapters do not. To replace port adapters, you must first remove the Cisco 7304 PCI Port Adapter Carrier Card in the Cisco 7304 router, the Catalyst RSM/VIP2, the Catalyst 6000 family FlexWAN module, or the VIP from the chassis, and then replace port adapters as required.

Cisco 7100 series, Cisco 7200 series, Cisco uBR7200 series, Cisco 7301 routers, and Cisco 7401ASR routers support OIR of all port adapter types.

Figure 1-1 PA-8T-V.35 Port Adapter—Faceplate View



All PA-8T-V.35 serial interfaces support non return to zero (NRZ) and non return to zero inverted (NRZI) format, and both 16-bit and 32-bit cyclic redundancy checks (CRCs). The default configuration is for NRZ format and 16-bit CRC. You can change the default settings with software commands.

There is no default mode or clock rate set on the PA-8T-V.35 serial ports, although an internal clock signal is present on all ports for data communications equipment (DCE) support. The internal clock allows you to perform local loopback tests without having to terminate the port or connect a cable. To use the port as a DCE interface, you must set the clock rate and connect a DCE compact serial cable. To use the port as a DTE interface, you need only connect a data terminal equipment (DTE) compact serial cable to the port. Because the serial adapter cables determine the mode and interface type, the PA-8T-V.35 interface becomes a DTE when a DTE cable is connected to it.

If a DTE cable is connected to a port with a clock rate set, the DTE ignores the clock rate and uses the external clock signal that is sent from the remote DCE. For a brief description of the **clock rate** command, see the “[Configuring Timing \(Clock\) Signals](#)” section on page 5-10. For complete command descriptions and instructions, refer to the publications listed in the “[Related Documentation](#)” section on page viii.

Serial Interface Specifications

Serial signals can travel a limited distance at any given bit rate; generally, the slower the bit rate, the greater the distance. All serial signals are subject to distance limits beyond which a signal degrades significantly or is completely lost. [Table 1-1](#) lists recommended transmission speeds and distances for V.35 serial interfaces. The recommended maximum rate for V.35 is 2.048 Mbps.

Table 1-1 Recommended Transmission Speed Versus Distance

Rate (bps)	V.35 Distances	
	Feet	Meters
2400	4,100	1,250
4800	2,050	625
9600	1,025	312
19200	513	156
38400	256	78
56000	102	31
2048000	25	8

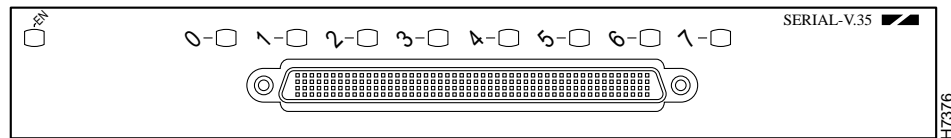
**Note**

V.35 supports 2.048-Mbps rates without any problems; we do not recommend exceeding the above specifications for transmission speed versus distance. Do so at your own risk. The total aggregate bandwidth for the PA-8T-V.35 is 16 Mbps, which can be divided into 8 Mbps on two ports; 4 Mbps on four ports; or 2 Mbps on eight ports.

LEDs

The PA-8T-V.35 has one row of eight status LEDs (one for each port) and one enabled (EN) LED. (See [Figure 1-2](#).) The green- and amber-colored LED for each port indicates port status.

Figure 1-2 LEDs on the PA-8T-V.35 Port Adapter—Horizontal Orientation



After system initialization, the enabled LED goes on to indicate that the port adapter has been enabled for operation.

The following conditions must be met before the PA-8T-V.35 is enabled:

- Port adapter is correctly connected to the backplane or midplane and receiving power.
- Valid system software image for the port adapter has been downloaded successfully.
- System recognizes the port adapter or PA-8T-V.35-equipped VIP, Catalyst RSM/VIP2, Catalyst 6000 family FlexWAN module, or Cisco 7304 PCI Port Adapter Carrier Card.

If any of the above conditions are not met, or if the initialization fails for other reasons, the enabled LED does not go on.

[Table 1-2](#) lists port LED colors and indications.

Table 1-2 PA-8T-V.35 Port LED Indications

LED Label	Color	State	Function
0 through 7	Green	On	Port is initialized by the system (the software recognizes the hardware), and a V.35 compact serial cable is properly connected at the router end and the network end.
	Green	Flashing	Port is sending and receiving data in half-duplex mode (Cisco 7200 series routers only).

Table 1-2 PA-8T-V.35 Port LED Indications (continued)

Amber	On	One of these conditions applies: <ul style="list-style-type: none"> • Port is in loopback mode • Compact serial is not properly connected at the router or network end • Hardware problem at the network end of the compact serial cable
Amber	Off	Port is administratively down.

Cables and Pinouts

The compact serial cable for the PA-8T-V.35 is available in DTE or DCE mode with a 200-pin, D-shell receptacle at the router end and eight, 34-pin Winchester block-type receptacles or plugs at the network end. (See [Figure 1-3](#).) The compact serial cable for the PA-8T-V.35 is 6 feet (1.8 meters) long.



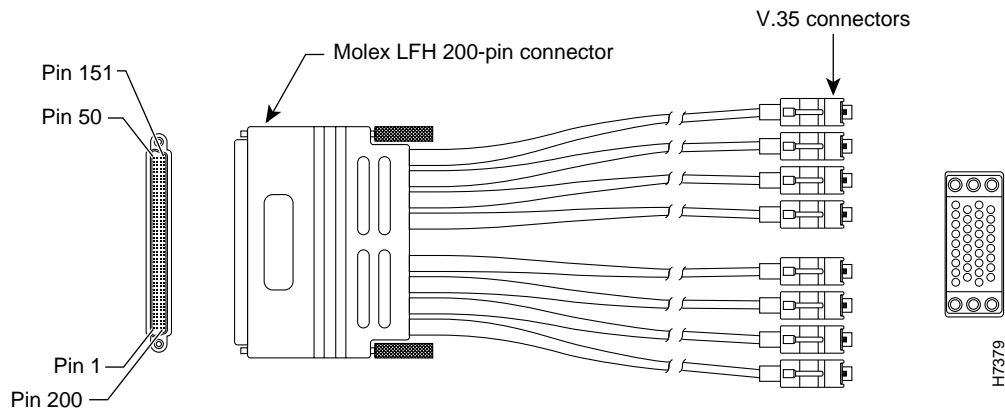
Note

The V.35 compact serial cable attached to the single PA-8T-V.35 port determines the mode (DTE or DCE) of the eight PA-8T-V.35 interfaces.

Following are the product numbers, according to mode, for the PA-8T-V.35 compact serial cable:

- DTE mode with a 34-pin, Winchester-type V.35 plug (CAB-OCT-V.35-MT[=])
- DCE mode with a 34-pin, Winchester-type V.35 receptacle (CAB-OCT-V.35-FC[=])

Figure 1-3 V.35 Compact Serial Cable



Because the PA-8T-V.35 uses a special, high-density port that requires special compact serial interface cables, we recommend that you obtain the cables from Cisco Systems. [Figure 1-4 on page 1-5](#) shows the connectors at the network end of the PA-8T-V.35 compact serial cable.

Figure 1-4 PA-8T-V.35 Compact Serial Cable Connectors

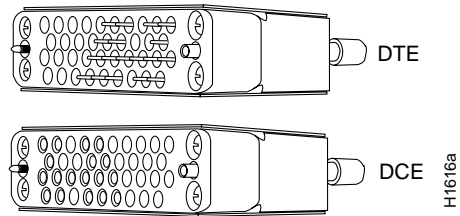


Table 1-3 lists connector pinouts for the PA-8T-V.35 DTE compact serial cable (CAB-OCT-V.35-MT[=]), and Table 1-4 lists connector pinouts for the PA-8T-V.35 DCE compact serial cable (CAB-OCT-V.35-FC[=]).

Table 1-3 PA-8T-V.35 DTE Compact Serial Cable Pinouts

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-126	MODE_1	Shorting	—		
J8-125	GROUND	Group			
J8-175	MODE_0	Shorting	—		
J8-176	GROUND	Group			
J8-26	MODE_DCE	Shorting	—		
J8-25	GROUND	Group			
	SHIELD_GROUND	Braid		SHIELD GND	J0-A
J8-16	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J0-C
J8-14	O_DTR/DSR+		—>	DTR	J0-H
J8-23	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J0-D
J8-21	I_DSR/DTR+		<—	DSR	J0-E
J8-12	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J0-F
J8-11	SIG_GROUND			SIG GND	J0-B
J8-19	O_LL/NIL+	Twisted pair no. 9	—>	LT	J0-K
J8-18	SIG_GROUND			SIG GND	J0-B
J8-1	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J0-P
J8-2	O_TXD/RXD-		—>	SD-	J0-S
J8-5	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J0-R
J8-6	I_RXD/TXD-		<—	RD-	J0-T
J8-3	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J0-U
J8-4	O_TXCE/RXC-		—>	SCTE-	J0-W
J8-7	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J0-V
J8-8	I_RXC/TXCE-		<—	SCR-	J0-X

Table 1-3 PA-8T-V.35 DTE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-9	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J0-Y
J8-10	IO_TXC/TXC-		<—	SCT-	J0-AA
	SHIELD_GROUND	Braid		SHIELD GND	J1-A
J8-35	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J1-C
J8-37	O_DTR/DSR+		—>	DTR	J1-H
J8-28	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J1-D
J8-30	I_DSR/DTR+		<—	DSR	J1-E
J8-39	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J1-F
J8-40	SIG_GROUND			SIG GND	J1-B
J8-32	O_LL/NIL+	Twisted pair no. 9	—>	LT	J1-K
J8-33	SIG_GROUND			SIG GND	J1-B
J8-50	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J1-P
J8-49	O_TXD/RXD-		—>	SD-	J1-S
J8-46	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J1-R
J8-45	I_RXD/TXD-		<—	RD-	J1-T
J8-48	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J1-U
J8-47	O_TXCE/RXC-		—>	SCTE-	J1-W
J8-44	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J1-V
J8-43	I_RXC/TXCE-		<—	SCR-	J1-X
J8-42	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J1-Y
J8-41	IO_TXC/TXC-		<—	SCT-	J1-AA
	SHIELD_GROUND	Braid		SHIELD GND	J2-A
J8-66	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J2-C
J8-64	O_DTR/DSR+		—>	DTR	J2-H
J8-73	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J2-D
J8-71	I_DSR/DTR+		<—	DSR	J2-E
J8-62	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J2-F
J8-61	SIG_GROUND			SIG GND	J2-B
J8-69	O_LL/NIL+	Twisted pair no. 9	—>	LT	J2-K
J8-68	SIG_GROUND			SIG GND	J2-B
J8-51	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J2-P
J8-52	O_TXD/RXD-		—>	SD-	J2-S
J8-55	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J2-R
J8-56	I_RXD/TXD-		<—	RD-	J2-T

Table 1-3 PA-8T-V.35 DTE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-53	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J2-U
J8-54	O_TXCE/RXC-		—>	SCTE-	J2-W
J8-57	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J2-V
J8-58	I_RXC/TXCE-		<—	SCR-	J2-X
J8-59	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J2-Y
J8-60	IO_TXC/TXC-		<—	SCT-	J2-AA
	SHIELD_GROUND	Braid		SHIELD GND	J3-A
J8-85	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J3-C
J8-87	O_DTR/DSR+		—>	DTR	J3-H
J8-78	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J3-D
J8-80	I_DSR/DTR+		<—	DSR	J3-E
J8-89	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J3-F
J8-90	SIG_GROUND			SIG GND	J3-B
J8-82	O_LL/NIL+	Twisted pair no. 9	—>	LT	J3-K
J8-83	SIG_GROUND			SIG GND	J3-B
J8-100	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J3-P
J8-99	O_TXD/RXD-		—>	SD-	J3-S
J8-96	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J3-R
J8-95	I_RXD/TXD-		<—	RD-	J3-T
J8-98	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J3-U
J8-97	O_TXCE/RXC-		—>	SCTE-	J3-W
J8-94	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J3-V
J8-93	I_RXC/TXCE-		<—	SCR-	J3-X
J8-92	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J3-Y
J8-91	IO_TXC/TXC-		<—	SCT-	J3-AA
	SHIELD_GROUND	Braid		SHIELD GND	J4-A
J8-116	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J4-C
J8-114	O_DTR/DSR+		—>	DTR	J4-H
J8-123	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J4-D
J8-121	I_DSR/DTR+		<—	DSR	J4-E
J8-112	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J4-F
J8-111	SIG_GROUND			SIG GND	J4-B
J8-119	O_LL/NIL+	Twisted pair no. 9	—>	LT	J4-K
J8-118	SIG_GROUND			SIG GND	J4-B

Table 1-3 PA-8T-V.35 DTE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-101	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J4-P
J8-102	O_TXD/RXD-		—>	SD-	J4-S
J8-105	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J4-R
J8-106	I_RXD/TXD-		<—	RD-	J4-T
J8-103	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J4-U
J8-104	O_TXCE/RXC-		—>	SCTE-	J4-W
J8-107	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J4-V
J8-108	I_RXC/TXCE-		<—	SCR-	J4-X
J8-109	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J4-Y
J8-110	IO_TXC/TXC-		<—	SCT-	J4-AA
	SHIELD_GROUND	Braid		SHIELD GND	J5-A
J8-135	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J5-C
J8-137	O_DTR/DSR+		—>	DTR	J5-H
J8-128	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J5-D
J8-130	I_DSR/DTR+		<—	DSR	J5-E
J8-139	IO_DCD/DCD+	Twisted pair no. 6	<—	RLSD	J5-F
J8-140	SIG_GROUND			SIG GND	J5-B
J8-132	O_LL/NIL+	Twisted pair no. 9	—>	LT	J5-K
J8-133	SIG_GROUND			SIG GND	J5-B
J8-150	O_TXD/RXD+	Twisted pair no. 1	—>	SD+	J5-P
J8-149	O_TXD/RXD-		—>	SD-	J5-S
J8-146	I_RXD/TXD+	Twisted pair no. 3	<—	RD+	J5-R
J8-145	I_RXD/TXD-		<—	RD-	J5-T
J8-148	O_TXCE/RXC+	Twisted pair no. 2	—>	SCTE+	J5-U
J8-147	O_TXCE/RXC-		—>	SCTE-	J5-W
J8-144	I_RXC/TXCE+	Twisted pair no. 4	<—	SCR+	J5-V
J8-143	I_RXC/TXCE-		<—	SCR-	J5-X
J8-142	IO_TXC/TXC+	Twisted pair no. 5	<—	SCT+	J5-Y
J8-141	IO_TXC/TXC-		<—	SCT-	J5-AA
	SHIELD_GROUND	Braid		SHIELD GND	J6-A
J8-166	O_RTS/CTS+	Twisted pair no. 7	—>	RTS	J6-C
J8-164	O_DTR/DSR+		—>	DTR	J6-H
J8-173	I_CTS/RTS+	Twisted pair no. 8	<—	CTS	J6-D
J8-171	I_DSR/DTR+		<—	DSR	J6-E

Table 1-3 PA-8T-V.35 DTE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-162	IO_DCD/DCD+	Twisted pair no. 6	←	RLSD	J6-F
J8-161	SIG_GROUND			SIG GND	J6-B
J8-169	O_LL/NIL+	Twisted pair no. 9	→	LT	J6-K
J8-168	SIG_GROUND			SIG GND	J6-B
J8-151	O_TXD/RXD+	Twisted pair no. 1	→	SD+	J6-P
J8-152	O_TXD/RXD-			SD-	J6-S
J8-155	I_RXD/TXD+	Twisted pair no. 3	←	RD+	J6-R
J8-156	I_RXD/TXD-			RD-	J6-T
J8-153	O_TXCE/RXC+	Twisted pair no. 2	→	SCTE+	J6-U
J8-154	O_TXCE/RXC-			SCTE-	J6-W
J8-157	I_RXC/TXCE+	Twisted pair no. 4	←	SCR+	J6-V
J8-158	I_RXC/TXCE-			SCR-	J6-X
J8-159	IO_TXC/TXC+	Twisted pair no. 5	←	SCT+	J6-Y
J8-160	IO_TXC/TXC-			SCT-	J6-AA
	SHIELD_GROUND	Braid		SHIELD GND	J7-A
J8-185	O_RTS/CTS+	Twisted pair no. 7	→	RTS	J7-C
J8-187	O_DTR/DSR+			DTR	J7-H
J8-178	I_CTS/RTS+	Twisted pair no. 8	←	CTS	J7-D
J8-180	I_DSR/DTR+			DSR	J7-E
J8-189	IO_DCD/DCD+	Twisted pair no. 6	←	RLSD	J7-F
J8-190	SIG_GROUND			SIG GND	J7-B
J8-182	O_LL/NIL+	Twisted pair no. 9	→	LT	J7-K
J8-183	SIG_GROUND			SIG GND	J7-B
J8-200	O_TXD/RXD+	Twisted pair no. 1	→	SD+	J7-P
J8-199	O_TXD/RXD-			SD-	J7-S
J8-196	I_RXD/TXD+	Twisted pair no. 3	←	RD+	J7-R
J8-195	I_RXD/TXD-			RD-	J7-T
J8-198	O_TXCE/RXC+	Twisted pair no. 2	→	SCTE+	J7-U
J8-197	O_TXCE/RXC-			SCTE-	J7-W
J8-194	I_RXC/TXCE+	Twisted pair no. 4	←	SCR+	J7-V
J8-193	I_RXC/TXCE-			SCR-	J7-X
J8-192	IO_TXC/TXC+	Twisted pair no. 5	←	SCT+	J7-Y
J8-191	IO_TXC/TXC-			SCT-	J7-AA

Table 1-4 PA-8T-V.35 DCE Compact Serial Cable Pinouts

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-126	MODE_1	Shorting	—		
J8-125	GROUND	Group			
J8-175	MODE_0	Shorting	—		
J8-176	GROUND	Group			
	SHIELD_GROUND	Braid		SHIELD GND	J0-A
J8-23	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J0-C
J8-21	I_DSR/DTR+		<—	DSR	J0-H
J8-16	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J0-D
J8-14	O_DTR/DSR+		—>	DTR	J0-E
J8-12	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J0-F
J8-11	SIG_GROUND			SIG GND	J0-B
J8-20	I_NIL/LL+	Twisted pair no. 9	<—	LT	J0-K
J8-18	SIG_GROUND			SIG GND	J0-B
J8-5	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J0-P
J8-6	I_RXD/TXD-		<—	SD-	J0-S
J8-1	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J0-R
J8-2	O_TXD/RXD-		—>	RD-	J0-T
J8-7	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J0-U
J8-8	I_RXC/TXCE-		<—	SCTE-	J0-W
J8-3	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J0-V
J8-4	O_TXCE/RXC-		—>	SCR-	J0-X
J8-9	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J0-Y
J8-10	IO_TXC/TXC-		—>	SCT-	J0-AA
	SHIELD_GROUND	Braid		SHIELD GND	J1-A
J8-28	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J1-C
J8-30	I_DSR/DTR+		<—	DSR	J1-H
J8-35	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J1-D
J8-37	O_DTR/DSR+		—>	DTR	J1-E
J8-39	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J1-F
J8-40	SIG_GROUND			SIG GND	J1-B
J8-31	I_NIL/LL+	Twisted pair no. 9	<—	LT	J1-K
J8-33	SIG_GROUND			SIG GND	J1-B
J8-46	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J1-P
J8-45	I_RXD/TXD-		<—	SD-	J1-S

Table 1-4 PA-8T-V.35 DCE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-50	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J1-R
J8-49	O_TXD/RXD-		—>	RD-	J1-T
J8-44	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J1-U
J8-43	I_RXC/TXCE-		<—	SCTE-	J1-W
J8-48	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J1-V
J8-47	O_TXCE/RXC-		—>	SCR-	J1-X
J8-42	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J1-Y
J8-41	IO_TXC/TXC-		—>	SCT-	J1-AA
	SHIELD_GROUND	Braid		SHIELD GND	J2-A
J8-73	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J2-C
J8-71	I_DSR/DTR+		<—	DSR	J2-H
J8-66	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J2-D
J8-64	O_DTR/DSR+		—>	DTR	J2-E
J8-62	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J2-F
J8-61	SIG_GROUND			SIG GND	J2-B
J8-70	I_NIL/LL+	Twisted pair no. 9	<—	LT	J2-K
J8-68	SIG_GROUND			SIG GND	J2-B
J8-55	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J2-P
J8-56	I_RXD/TXD-		<—	SD-	J2-S
J8-51	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J2-R
J8-52	O_TXD/RXD-		—>	RD-	J2-T
J8-57	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J2-U
J8-58	I_RXC/TXCE-		<—	SCTE-	J2-W
J8-53	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J2-V
J8-54	O_TXCE/RXC-		—>	SCR-	J2-X
J8-59	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J2-Y
J8-60	IO_TXC/TXC-		—>	SCT-	J2-AA
	SHIELD_GROUND	Braid		SHIELD GND	J3-A
J8-78	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J3-C
J8-80	I_DSR/DTR+		<—	DSR	J3-H
J8-85	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J3-D
J8-87	O_DTR/DSR+		—>	DTR	J3-E
J8-89	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J3-F
J8-90	SIG_GROUND			SIG GND	J3-B

Table 1-4 PA-8T-V.35 DCE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-81	I_NIL/LL+	Twisted pair no. 9	<—	LT	J3-K
J8-83	SIG_GROUND			SIG GND	J3-B
J8-96	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J3-P
J8-95	I_RXD/TXD-		<—	SD-	J3-S
J8-100	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J3-R
J8-99	O_TXD/RXD-		—>	RD-	J3-T
J8-94	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J3-U
J8-93	I_RXC/TXCE-		<—	SCTE-	J3-W
J8-98	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J3-V
J8-97	O_TXCE/RXC-		—>	SCR-	J3-X
J8-92	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J3-Y
J8-91	IO_TXC/TXC-		—>	SCT-	J3-AA
	SHIELD_GROUND	Braid		SHIELD GND	J4-A
J8-123	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J4-C
J8-121	I_DSR/DTR+		<—	DSR	J4-H
J8-116	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J4-D
J8-114	O_DTR/DSR+		—>	DTR	J4-E
J8-112	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J4-F
J8-111	SIG_GROUND			SIG GND	J4-B
J8-120	I_NIL/LL+	Twisted pair no. 9	<—	LT	J4-K
J8-118	SIG_GROUND			SIG GND	J4-B
J8-105	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J4-P
J8-106	I_RXD/TXD-		<—	SD-	J4-S
J8-101	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J4-R
J8-102	O_TXD/RXD-		—>	RD-	J4-T
J8-107	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J4-U
J8-108	I_RXC/TXCE-		<—	SCTE-	J4-W
J8-103	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J4-V
J8-104	O_TXCE/RXC-		—>	SCR-	J4-X
J8-109	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J4-Y
J8-110	IO_TXC/TXC-		—>	SCT-	J4-AA
	SHIELD_GROUND	Braid		SHIELD GND	J5-A
J8-128	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J5-C
J8-130	I_DSR/DTR+		<—	DSR	J5-H

Table 1-4 PA-8T-V.35 DCE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
J8-135	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J5-D
J8-137	O_DTR/DSR+		—>	DTR	J5-E
J8-139	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J5-F
J8-140	SIG_GROUND			SIG GND	J5-B
J8-131	I_NIL/LL+	Twisted pair no. 9	<—	LT	J5-K
J8-133	SIG_GROUND			SIG GND	J5-B
J8-146	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J5-P
J8-145	I_RXD/TXD-		<—	SD-	J5-S
J8-150	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J5-R
J8-149	O_TXD/RXD-		—>	RD-	J5-T
J8-144	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J5-U
J8-143	I_RXC/TXCE-		<—	SCTE-	J5-W
J8-148	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J5-V
J8-147	O_TXCE/RXC-		—>	SCR-	J5-X
J8-142	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J5-Y
J8-141	IO_TXC/TXC-		—>	SCT-	J5-AA
	SHIELD_GROUND	Braid		SHIELD GND	J6-A
J8-173	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J6-C
J8-171	I_DSR/DTR+		<—	DSR	J6-H
J8-166	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J6-D
J8-164	O_DTR/DSR+		—>	DTR	J6-E
J8-162	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J6-F
J8-161	SIG_GROUND			SIG GND	J6-B
J8-170	I_NIL/LL+	Twisted pair no. 9	<—	LT	J6-K
J8-168	SIG_GROUND			SIG GND	J6-B
J8-155	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J6-P
J8-156	I_RXD/TXD-		<—	SD-	J6-S
J8-151	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J6-R
J8-152	O_TXD/RXD-		—>	RD-	J6-T
J8-157	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J6-U
J8-158	I_RXC/TXCE-		<—	SCTE-	J6-W
J8-153	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J6-V
J8-154	O_TXCE/RXC-		—>	SCR-	J6-X
J8-159	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J6-Y
J8-160	IO_TXC/TXC-		—>	SCT-	J6-AA

Table 1-4 PA-8T-V.35 DCE Compact Serial Cable Pinouts (continued)

Router End (200-Position Plug)				Network End (34-Pin Connector)	
Pin	Signal	Note	Direction	Signal	Pin
	SHIELD_GROUND	Braid		SHIELD GND	J7-A
J8-178	I_CTS/RTS+	Twisted pair no. 8	<—	RTS	J7-C
J8-180	I_DSR/DTR+		<—	DSR	J7-H
J8-185	O_RTS/CTS+	Twisted pair no. 7	—>	CTS	J7-D
J8-187	O_DTR/DSR+		—>	DTR	J7-E
J8-189	IO_DCD/DCD+	Twisted pair no. 6	—>	RLSD	J7-F
J8-190	SIG_GROUND			SIG GND	J7-B
J8-181	I_NIL/LL+	Twisted pair no. 9	<—	LT	J7-K
J8-183	SIG_GROUND			SIG GND	J7-B
J8-196	I_RXD/TXD+	Twisted pair no. 3	<—	SD+	J7-P
J8-195	I_RXD/TXD-		<—	SD-	J7-S
J8-200	O_TXD/RXD+	Twisted pair no. 1	—>	RD+	J7-R
J8-199	O_TXD/RXD-		—>	RD-	J7-T
J8-194	I_RXC/TXCE+	Twisted pair no. 4	<—	SCTE+	J7-U
J8-193	I_RXC/TXCE-		<—	SCTE-	J7-W
J8-198	O_TXCE/RXC+	Twisted pair no. 2	—>	SCR+	J7-V
J8-197	O_TXCE/RXC-		—>	SCR-	J7-X
J8-192	IO_TXC/TXC+	Twisted pair no. 5	—>	SCT+	J7-Y
J8-191	IO_TXC/TXC-		—>	SCT-	J7-AA

Port Adapter Slot Locations on the Supported Platforms

This section discusses port adapter slot locations on the supported platforms. The illustrations that follow summarize slot locations on each platform:

- [Catalyst RSM/VIP2 Slot Numbering, page 1-15](#)
- [Catalyst 6000 Family FlexWAN Module Slot Numbering, page 1-15](#)
- [Cisco 7100 Series Routers Slot Numbering, page 1-16](#)
- [Cisco 7200 Series and Cisco uBR7200 Series Routers Slot Numbering, page 1-17](#)
- [Cisco 7301 Router Slot Numbering, page 1-18](#)
- [Cisco 7304 PCI Port Adapter Carrier Card Slot Numbering, page 1-18](#)
- [Cisco 7401ASR Router Slot Numbering, page 1-19](#)
- [VIP Slot Numbering, page 1-20](#)

Catalyst RSM/VIP2 Slot Numbering

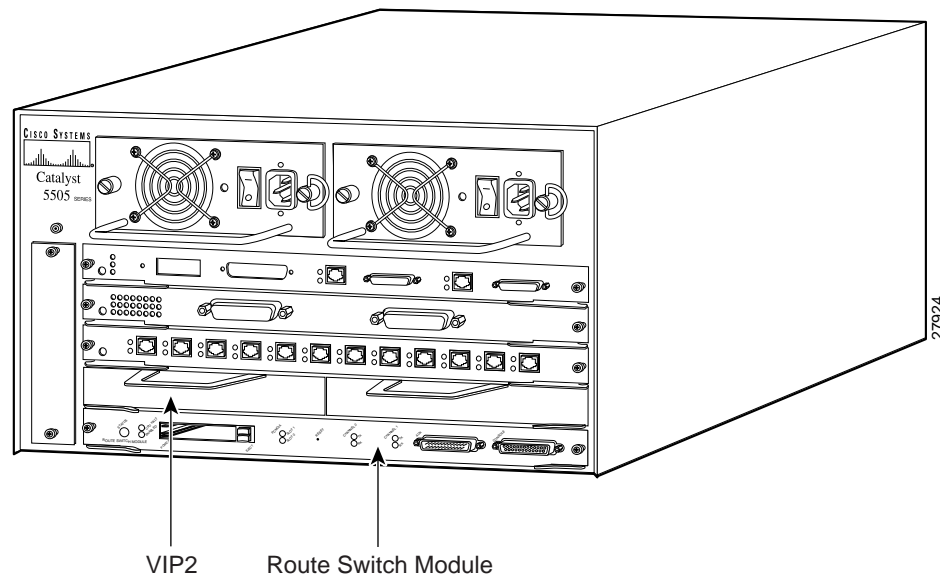
The Catalyst RSM/VIP2 can be installed in any slot except the top slots, which contain the supervisor engine. The Catalyst RSM/VIP2 in a Catalyst 5000 family switch does not use interface processor slot numbering; therefore, slots are not numbered in Figure 1-5. The PA-8T-V.35 can be installed into either port adapter slot 0 or slot 1 on a Catalyst RSM/VIP2. Figure 1-5 shows a Catalyst RSM/VIP2 with two port adapters installed.



Note

The Catalyst 5500 switch has 13 slots. Slot 1 is reserved for the supervisor engine. If a redundant supervisor engine is used, it would go in slot 2; otherwise, slot 2 can be used for other modules. Slot 13 is a dedicated slot, reserved for the ATM switch processor (ASP) module. Refer to the *Catalyst 5000 Series Route Switch Module Installation and Configuration Note* for any additional slot restrictions for the Catalyst RSM/VIP2.

Figure 1-5 Catalyst 5000 Family Switch with Port Adapters Installed on Catalyst RSM/VIP2



Catalyst 6000 Family FlexWAN Module Slot Numbering

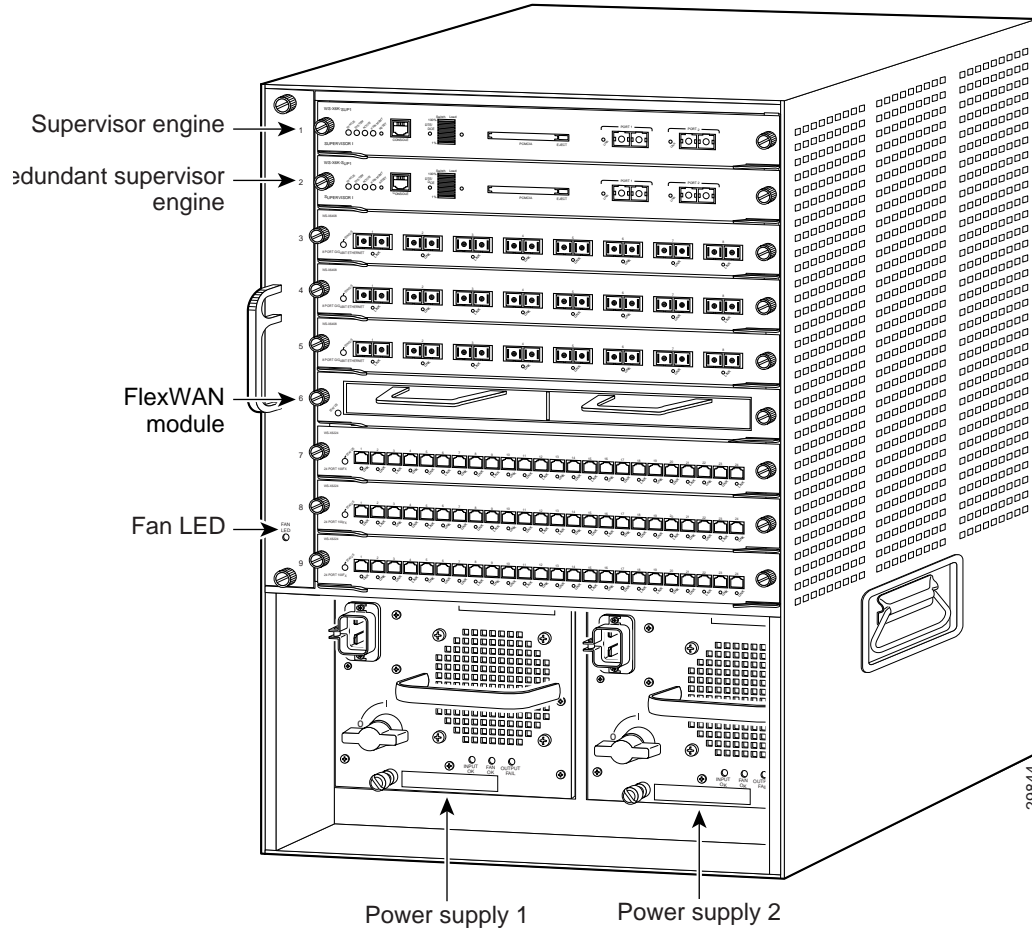
The Catalyst 6000 family FlexWAN module can be installed in any slot except slot 1, which is reserved for the supervisor engine. The PA-8T-V.35 can be installed into either port adapter bay 0 or bay 1 on a FlexWAN module. Figure 1-6 shows a FlexWAN module with two blank port adapters installed.



Note

Slot 1 is reserved for the supervisor engine. If a redundant supervisor engine is used, it would go in slot 2; otherwise, slot 2 can be used for other modules.

Figure 1-6 Catalyst 6000 Family Switch with Blank Port Adapters Installed on FlexWAN Module



Cisco 7100 Series Routers Slot Numbering

The PA-8T-V.35 can be installed in port adapter slot 3 in Cisco 7120 series routers, and in port adapter slot 4 in Cisco 7140 series routers. [Figure 1-7](#) shows a Cisco 7120 with a port adapter installed in slot 3. [Figure 1-8](#) shows a Cisco 7140 with a port adapter installed in slot 4.

Figure 1-7 Port Adapter Slots in the Cisco 7100 Series Router—Cisco 7120 Series

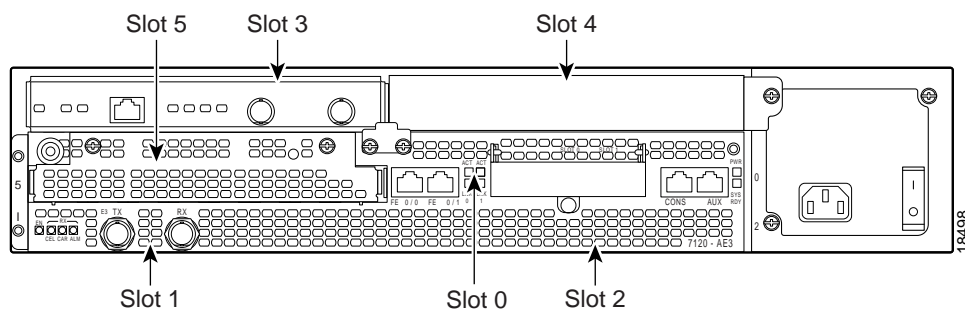
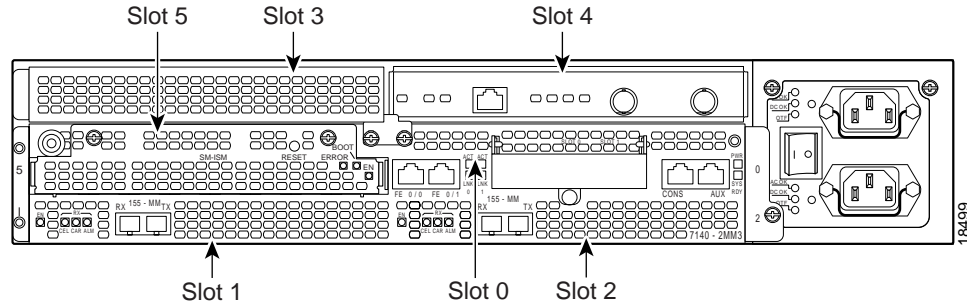


Figure 1-8 Port Adapter Slots in the Cisco 7100 Series Router—Cisco 7140 Series



Cisco 7200 Series and Cisco uBR7200 Series Routers Slot Numbering

Figure 1-9 shows a Cisco 7206 with port adapters installed. In the Cisco 7206, port adapter slot 1 is in the lower left position, and port adapter slot 6 is in the upper right position. (The Cisco 7202 and Cisco 7204 are not shown; however, the PA-8T-V.35 can be installed in any available port adapter slot.)

Figure 1-9 Port Adapter Slots in the Cisco 7206

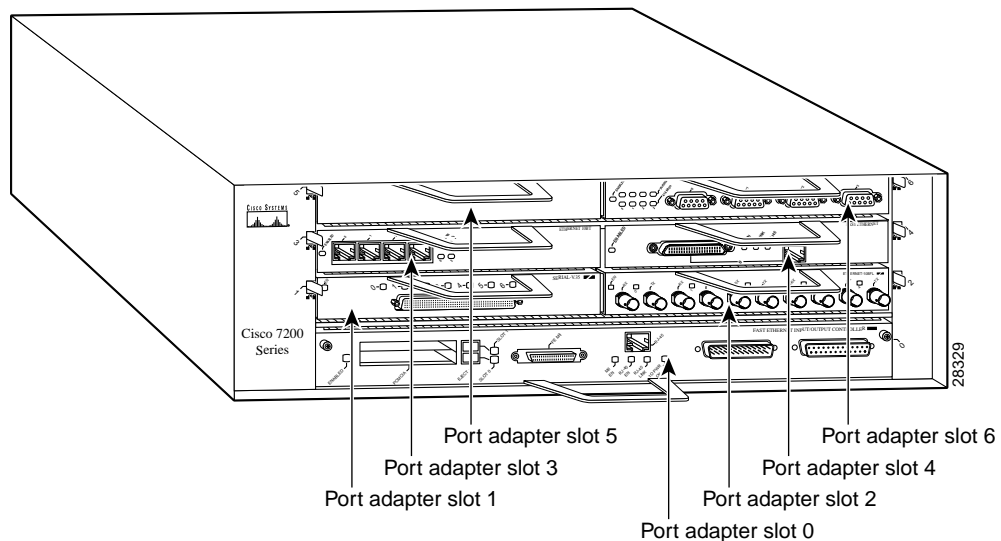
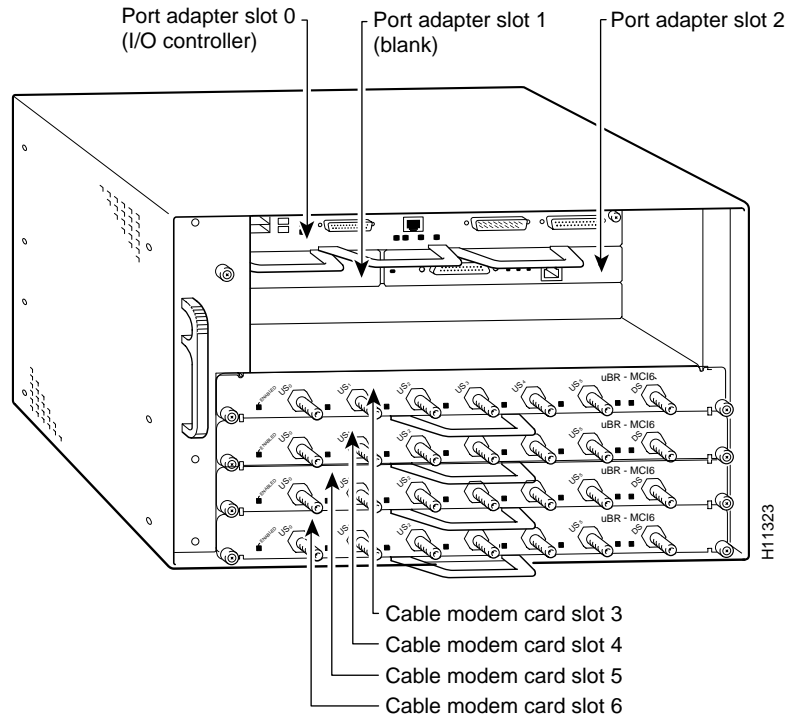


Figure 1-10 shows the slot numbering of port adapters in a Cisco uBR7246 and Cisco uBR7246VXR router. The port adapter slots are numbered slot 1 and slot 2 for the Cisco uBR7246 and Cisco uBR7246VXR router and slot 1 for the Cisco uBR7223. (Slot 0 is always reserved for the Fast Ethernet port on the I/O controller—if present.)

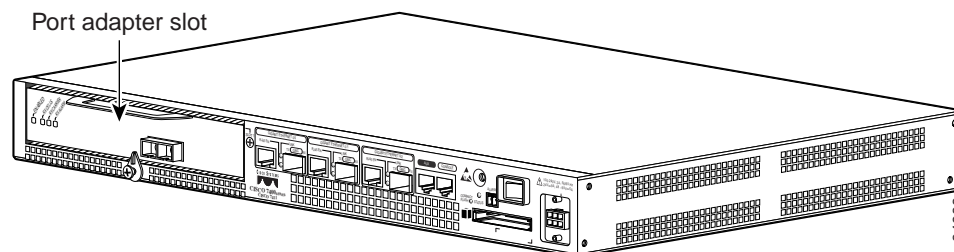
Figure 1-10 Port Adapter Slots in the Cisco uBR7246 and Cisco uBR7246VXR



Cisco 7301 Router Slot Numbering

The Cisco 7301 router has one standard port adapter slot. See [Figure 1-11](#).

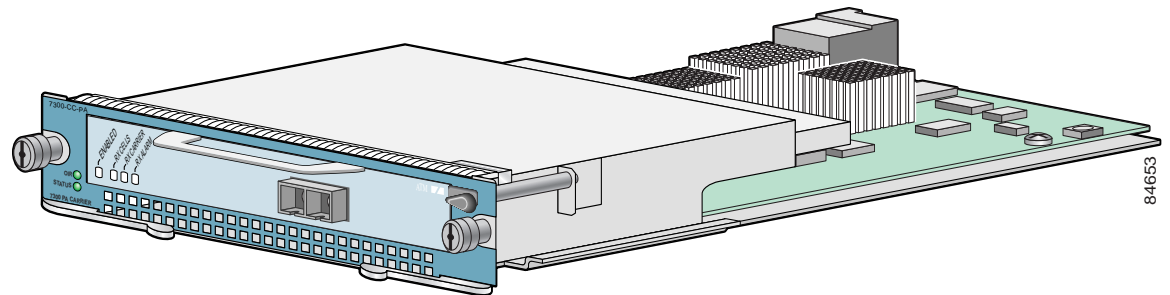
Figure 1-11 Port Adapter Slot in the Cisco 7301 Router



Cisco 7304 PCI Port Adapter Carrier Card Slot Numbering

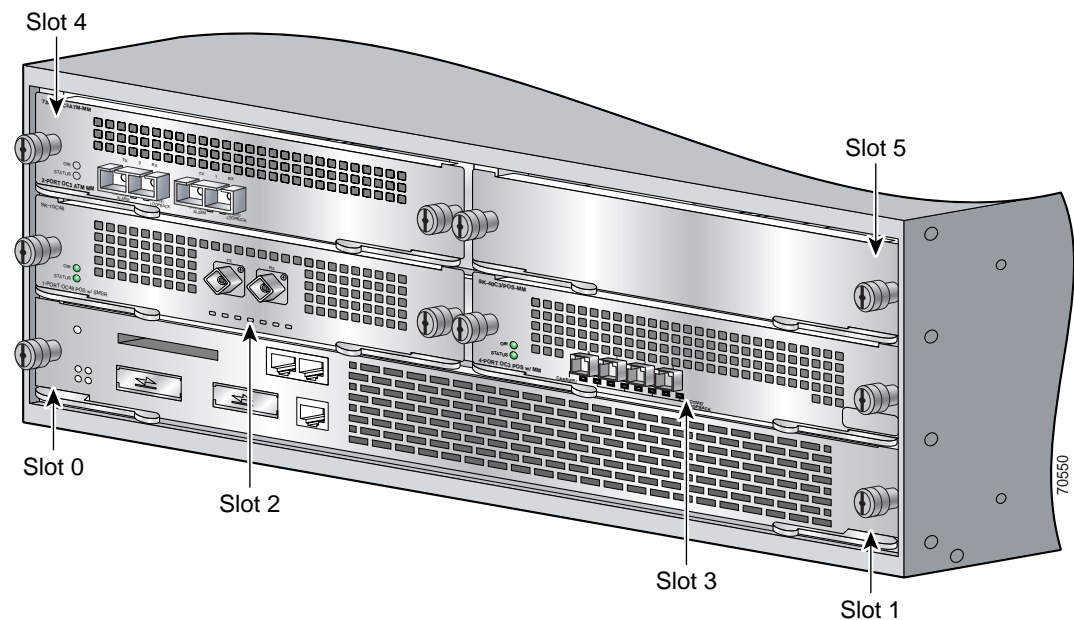
The Cisco 7304 PCI Port Adapter Carrier Card accepts one single-width port adapter. [Figure 1-12](#) shows a Cisco 7304 PCI Port Adapter Carrier Card with a port adapter installed.

Figure 1-12 Cisco 7304 PCI Port Adapter Carrier Card—Port Adapter Installed



The Cisco 7304 PCI Port Adapter Carrier Card installs in Cisco 7304 router module slots 2 through 5. See Figure 1-13 for module slot numbering on a Cisco 7304 router.

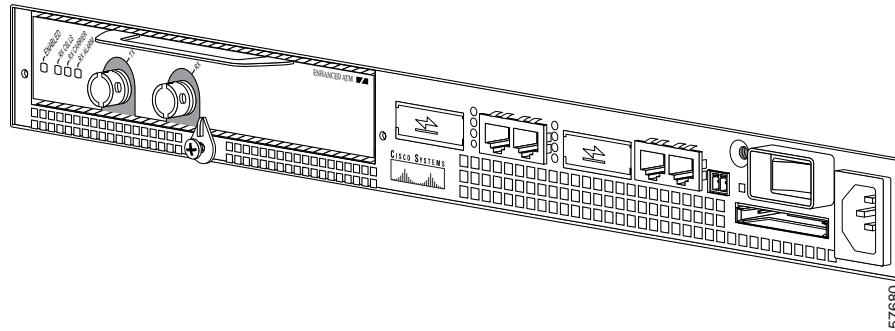
Figure 1-13 Module Slots on the Cisco 7304 Router



Cisco 7401ASR Router Slot Numbering

Figure 1-14 shows the front view of a Cisco 7401ASR router with a port adapter installed. There is only one port adapter slot in a Cisco 7401ASR router.

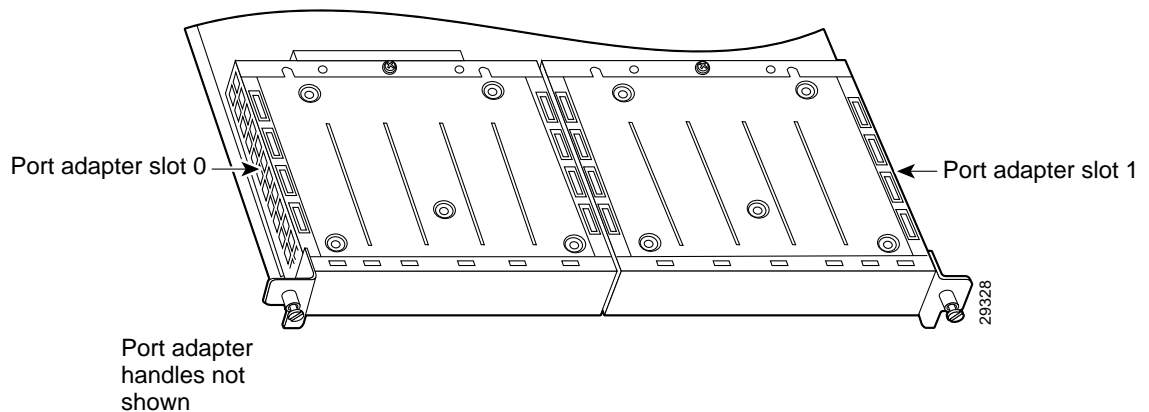
Figure 1-14 Cisco 7401ASR Router with a Port Adapter Installed



VIP Slot Numbering

Figure 1-15 shows a partial view of a VIP motherboard with installed port adapters. With the motherboard oriented as shown in Figure 1-15, the left port adapter is in port adapter slot 0, and the right port adapter is in port adapter slot 1. The slot numbering is the same for the Catalyst RSM/VIP2. The slots are always numbered 0 and 1.

Figure 1-15 VIP Motherboard with Two Port Adapters Installed—Horizontal Orientation

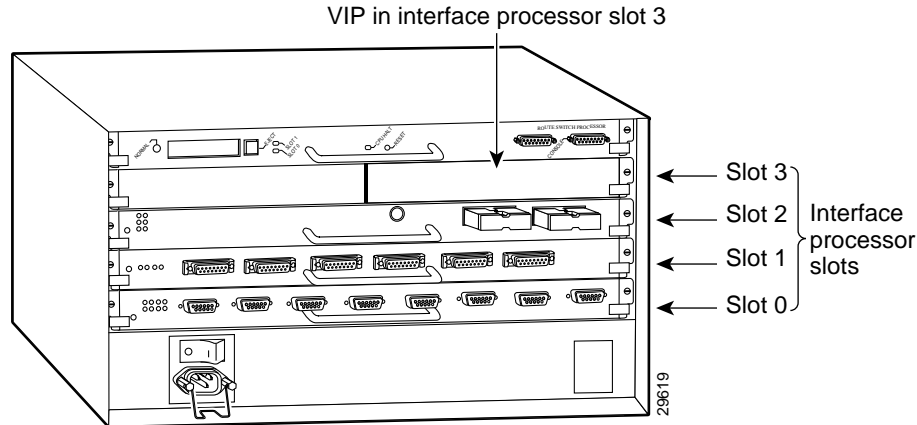


Note

In the Cisco 7000, Cisco 7507, and Cisco 7513 chassis, the VIP motherboard is installed vertically. In the Cisco 7010 and Cisco 7505 chassis, the VIP motherboard is installed horizontally.

Interface processor slots are numbered as shown in Figure 1-16.

Figure 1-16 Interface Slot Numbers—Cisco 7505 shown



Identifying Interface Addresses

This section describes how to identify interface addresses for the PA-8T-V.35 in supported platforms. Interface addresses specify the actual physical location of each interface on a router or switch.

Interfaces on the PA-8T-V.35 installed in a router maintain the same address regardless of whether other port adapters are installed or removed. However, when you move a port adapter to a different slot, the first number in the interface address changes to reflect the new port adapter slot number.

Interfaces on a PA-8T-V.35 installed in a Catalyst 6000 family FlexWAN module or a VIP maintain the same address regardless of whether other interface processors are installed or removed. However, when you move a Catalyst 6000 family FlexWAN module or a VIP to a different slot, the interface processor slot number changes to reflect the new interface processor slot.



Note

Interface ports are numbered from left to right starting with 0.

Table 1-5 explains how to identify interface addresses.

Table 1-5 Identifying Interface Addresses

Platform	Interface Address Format	Numbers	Syntax
Catalyst RSM/VIP2 in Catalyst 5000 family switches	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 0 or 1 Interface port—0 through 7	0/1
Catalyst 6000 family FlexWAN module in Catalyst 6000 family switches	Module-slot-number/port-adapter-bay-number/interface-port-number	Module slot number—2 ¹ through 6 or 9 (depending on the number of slots in the switch) Port adapter bay—always 0 or 1 Interface port—0 through 7	3/0/0
Cisco 7120 series routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 3 Interface port—0 through 7	3/1

Table 1-5 Identifying Interface Addresses (continued)

Platform	Interface Address Format	Numbers	Syntax
Cisco 7140 series routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 4 Interface port—0 through 7	4/0
Cisco 7200 series routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—0 through 6 (depends on the number of slots in the router) ² Interface port—0 through 7	1/0
Cisco uBR7223 router	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 1 ² Interface port—0 through 7	1/0
Cisco uBR7246 and Cisco uBR7246VXR routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 1 or 2 ² Interface port—0 through 7	1/2
Cisco 7301 routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 1 Interface port—0 through 7	1/0
Cisco 7304 PCI Port Adapter Carrier Card in Cisco 7304 routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—router module slot 2 through 5 Interface port—0 through 7	3/0
Cisco 7401 ASR routers	Port-adapter-slot-number/interface-port-number	Port adapter slot—always 1 Interface port—0 through 7	1/0
VIP in Cisco 7000 series or Cisco 7500 series routers	Interface-processor-slot-number/port-adapter-slot-number/interface-port-number	Interface processor slot—0 through 12 (depends on the number of slots in the router) Port adapter slot—always 0 or 1 Interface port—0 through 7	3/1/0

1. Slot 1 is reserved for the supervisor engine. If a redundant supervisor engine is used, it must go in slot 2; otherwise, slot 2 can be used for other modules.
2. Port adapter slot 0 is reserved for the Fast Ethernet port on the I/O controller (if present).

Catalyst RSM/VIP2 Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 on the Catalyst RSM/VIP2 in the Catalyst 5000 family switches. The interface address is composed of a two-part number in the format *port-adapter-slot number/interface-port number*.

See [Table 1-5](#) for the interface address format.

Catalyst 6000 Family FlexWAN Module Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 on the Catalyst FlexWAN module in the Catalyst 6000 family switches. The interface address is composed of a three-part number in the format *module-number/port-adapter-bay-number/interface-port-number*.

See [Table 1-5 on page 1-21](#) for the interface address format.

If the FlexWAN module is inserted in module slot 3, then the interface addresses of the PA-8T-V.35 are 3/0/0 through 3/0/7 (module slot 3, port adapter bay 0, and interfaces 0 through 7). If the port adapter was in port adapter bay 1 on the FlexWAN module, these same interface addresses would be numbered 3/1/0 through 3/1/7.

**Note**

If you remove the FlexWAN module with the PA-8T-V.35 from module slot 3 and install it in module slot 6, the interface addresses become 6/0/0 through 6/0/7.

**Note**

The FlexWAN module physical port address uses a zero- (0-) based port address, which differs from the conventional Catalyst 6000 family one- (1-) based port address.

Cisco 7100 Series Routers Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 in Cisco 7100 series routers. The interface address is composed of a two-part number in the format *port-adapter-slot-number/interface-port-number*. See [Table 1-5](#) for the interface address format.

Cisco 7200 Series and Cisco uBR7200 Series Routers Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 in Cisco 7200 series routers or Cisco uBR7200 series routers. The interface address is composed of a two-part number in the format *port-adapter-slot-number/interface-port-number*. See [Table 1-5](#) for the interface address format.

In Cisco 7200 series routers, port adapter slots are numbered from the lower left to the upper right, beginning with port adapter slot 1 and continuing through port adapter slot 2 for the Cisco 7202, slot 4 for the Cisco 7204 and Cisco 7204VXR, and slot 6 for the Cisco 7206 and Cisco 7206VXR. (Port adapter slot 0 is reserved for the optional Fast Ethernet port on the I/O controller—if present.)

The interface addresses of the interfaces on the PA-8T-V.35 in port adapter slot 1 are 1/0 through 1/7 (port adapter slot 1 and interfaces 0 through 7). If the PA-8T-V.35 was in port adapter slot 4, these same interfaces would be numbered 4/0 through 4/7 (port adapter slot 4 and interfaces 0 through 7).

In Cisco uBR7200 series routers, port adapter slots are numbered slot 1 and slot 2 for the Cisco uBR7246 and Cisco uBR7246VXR and slot 1 for the Cisco uBR7223. (Slot 0 is always reserved for the Fast Ethernet port on the I/O controller—if present.) The individual interfaces always begin with 0. The number of additional interfaces depends on the number of interface ports on a port adapter.

The interface addresses of the interfaces on a PA-8T-V.35 in port adapter slot 2 are 2/0 and 2/1 (port adapter slot 2 and interfaces 0 and 1). If the PA-8T-V.35 was in port adapter slot 1, these same interfaces would be numbered 1/0 and 1/1 (port adapter slot 1 and interfaces 0 and 1).

Cisco 7301 Router Interface Addresses

This section describes how to identify the interface addresses used for the Cisco PA-8T-V.35 port adapter in Cisco 7301 router. The interface address is composed of a two-part number in the format *port-adapter-slot-number/interface-port-number*. See [Table 1-5 on page 1-21](#) for the interface address format.

Cisco 7304 PCI Port Adapter Carrier Card Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 in the Cisco 7304 PCI Port Adapter Carrier Card in Cisco 7304 routers. The interface address is made of a two-part number in the format *port-adapter-slot-number/interface-port-number*.

The Cisco 7304 PCI Port Adapter Carrier Card installs into Cisco 7304 router module slots 2 through 5 (See [Figure 1-13](#).) The port-adapter-slot-number is the Cisco 7304 router module slot number. For example, the interface address of port 0 on a PA-8T-V.35, in which the Cisco 7304 PCI Port Adapter Carrier Card is installed in Cisco 7304 router module slot 3, would be numbered 3/0.

Cisco 7401ASR Router Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 in the Cisco 7401ASR router. In the Cisco 7401ASR router, slot 1 is the port adapter slot you use for the PA-8T-V.35. The interface address is composed of a two-part number in the format *port-adpater-slot-number/interface-port-number*. See [Table 1-5 on page 1-21](#) for the interface address format.

VIP Interface Addresses

This section describes how to identify the interface addresses used for the PA-8T-V.35 on a VIP in Cisco 7000 series and Cisco 7500 series routers.

**Note**

Although the processor slots in the 7-slot Cisco 7000 and Cisco 7507 and the 13-slot Cisco 7513 and Cisco 7576 are vertically oriented and those in the 5-slot Cisco 7010 and Cisco 7505 are horizontally oriented, all Cisco 7000 series and Cisco 7500 series routers use the same method for slot and port numbering.

See [Table 1-5](#) for the interface address format. The interface address is composed of a three-part number in the format *interface-processor-slot-number/port-adapter-slot-number/interface-port-number*.

If the VIP is inserted in interface processor slot 3, then the interface addresses of the PA-8T-V.35 are 3/1/0 through 3/1/7 (interface processor slot 3, port adapter slot 1, and interfaces 0 through 7). If the port adapter was in port adapter slot 0 on the VIP, these same interface addresses would be numbered 3/0/0 through 3/0/7.

**Note**

If you remove the VIP with the PA-8T-V.35 (shown in [Figure 1-16 on page 1-21](#)) from interface processor slot 3 and install it in interface processor slot 2, the interface addresses become 2/1/0 through 2/1/7.
