PA-4T+ A Four Port Serial Port Adapter for Cisco 7000 Family Routers

Increasing demand for bandwidth-intensive services and wide-area network (WAN) connectivity requires that network administrators maximize the capacity and efficiency of network routers. Cisco Systems' four-port serial port adapter provides network administrators with flexible options for a broad range of port density requirements. Cisco's four-port serial port adapter enhances network performance at a low price per port---making them the most cost-effective solution for maximizing router efficiency.

Four-Port Serial Port Adapter

The four-port adapter (PA-4T+) provides four synchronous serial ports. Each port supports full-duplex operations at T1 and E1 speeds. A single port can support up to E2 speeds.

Each port also supports a variety of interface types, determined by the separately purchased cable type connected to it. Supported interfaces include EIA/TIA-232, EIA/TIA-449, V.35, X.21, and EIA-530, allowing flexible deployments as either DCE or DTE equipment. The four-port adapter is the most cost-effective solution for low-traffic WAN connections or remote Cisco 7200 installations.

The PA-4T+ is supported on the Cisco 7200, C7301, C7304, C7500 and C7600. The PA-4T+ port adapter requires only a single slot in a Cisco 7200 Series and 7301 routers. For the Cisco 7304, it requires the port adapter carrier card option. For Cisco 7500 Series routers, it requires one of the two available adapter slots on a Versatile Interface Processor (VIP2) and an Enhanced FlexWan on the Cisco 7600.

Benefits

- Cost-effective solutions for any environment
  - Delivers very low price-per-port and provides higher performance than comparable solutions
  - Provides low-cost entry for small enterprise WANs
  - Provides Internet Service Providers (ISPs) with high serial density for Cisco 7200 series routers, lowering cost per port and cost per subscriber
- Four-port design provides flexibility
  - Supports four full-duplex T1/E1 connections or a single full-duplex E2 connection
  - All ports use identical 60-pin, D-shell receptacle that supports all interface types (i.e. RS232, RS449, RS530, V.35, x.21)
  - Adapter cables determine the electrical interface and port mode data terminal equipment (DTE) or data communications equipment (DCE)
- Carrier-Class Reliability and Serviceability
  - Field-replaceable design permits online insertion and removal for continuous router availability
  - Port adapter handles simplify installation and removal
  - Support for loopback for remote diagnostics
  - LEDs indicate when the adapter is enabled for operation
  - Separate LEDs for each port indicate DTE or DCE function, transmit data, transmit clock, receive data, and receive clock signals
  - Metric (M3) thumbscrews included with each port adapter cable allow connections to devices that use metric hardware

Specifications

Ordering information		
PA-4T+ for all electrical interfaces (5-in-1)		
Requires IOS Release 11.1.8CA (and above) or 11.2.5P (and above)		
Operator indicators LEDs (5 per channel for a total of 20 LEDs per Port Adapter)		
DTE or DCE function		
Transmit Data		
Transmit Clock		
Receive Data		
Receive Clock		
Enable (1 per Port Adapter to indicate enabled hardware)		
Network interfaces		
Four full-duplex ports at T1 (1.55 Mbps) or E1 (2.048 Mbps)		
Two full-duplex ports at up to 4 Mbps each		
One full-duplex port at up to E2 speeds (8 Mbps)		
Electrical interfaces (selectable via cable selection)		
V.35		
EIA/TIA-232		
EIA/TIA-449		
EIA-530		
X.21		
Connectors and cables		
V.35: DTE	34-pin Winchester-type male	CAB-V35MT (=)
V.35: DCE	34-pin Winchester-type female	CAB-V35FC (=)
V.35: DTE	Male DB-34 shielded male	CAB-V35MTS (=)
EIA/TIA-232: DTE	data bus (DB)-25 male	CAB-232MT (=)
EIA/TIA-232: DCE	DB-25 female	CAB-232FC (=)
EIA/TIA-449: DTE	37-pin D-shell male	CAB-449MT (=)
EIA/TIA-449: DCE	37-pin D-shell female	CAB-449C (=)
X.21: DTE	DB-15 male	CAB-X21MT (=)
X.21: DCE	DB-25 female	CAB-X21FC (=)
Environmental		
Operating temperature from 10éC to40éC		
Humidity from 10to90%, non-condensing		
Regulatory		
FCC Class Limits (FCC 47 CFR Part 15 Subpart B)		
EN55022 Class Limits		
UL 1950 D3 Dev.		
CSA 22.2 Nos. 950		
TUV-IEC 950		

Cisco Systems
Corporate Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
World Wide Web URL:
http://www.cisco.com
Tel: 408 526-4000
800 553-NETS (6387)
Fax: 408 526-4100

European Headquarters
Cisco Systems Europe
s.a.r.l.
Parc Evolic-Batiment
L1/L2
16, Avenue du Quebec
BP 706-Villebon
91961 Courtaboeuf Cedex
France
Tel: 33 1 6918 61 00
Fax: 33 1 6928 83 26

Intercontinental
Headquarters
Cisco Systems, Inc.
170 West Tasman Drive
San Jose, CA 95134-1706
USA
Tel: 408 526-7660
Fax: 408 526-4646

Latin American
Headquarters
Cisco Systems, Inc.
790 N.W. 107th Avenue
Suite 102
Miami, FL 33172
Tel: 305 228-1200
Fax: 305 222-8456

Japanese Headquarters
Nihon Cisco Systems K.K.
Fuji Building
3-2-3 Marunouchi
Chiyoda-ku, Tokyo 100
Japan
Tel: 81 3 5219 6000
Fax: 81 3 5219 6010

Cisco Systems has over 190 offices in the following countries. Addresses, phone numbers, and fax numbers are listed on the

Cisco Connection Online Web site at http://www.cisco.com.

Argentina • Australia • Austria • Belgium • Brazil • Canada • Chile • China (PRC) • Colombia • Costa Rica • Denmark • Finland • France • Germany Hong Kong • India • Indonesia • Ireland • Italy • Japan • Korea • Malaysia • Mexico • The Netherlands • New Zealand • Norway • Philippines Portugal • Singapore • South Africa • Spain • Sweden • Switzerland • Taiwan, ROC • Thailand • United Arab Emirates • United Kingdom • Venezuela