

## Cisco 1- and 2-Port Clear Channel Enhanced Capability Port Adapters

PB418350

The Cisco® 1- and 2-Port Clear Channel Enhanced Capability Port Adapters for the Cisco 7200 Series, Cisco 7301, and Cisco 7201 Routers are enhanced “two-in-one” versions (part numbers PA-T3/E3-EC and PA-2T3/E3-EC) of the earlier Clear Channel T3 and E3 port adapters (part numbers PA-T3+, PA-2T3+, PA-E3, and PA-2E3). These new products assist network implementers by minimizing sparing of both T3 port adapters for the United States and E3 for European and Asian implementations. They provide a new software architecture that allows selecting either T3 or E3 by way of software configuration coupled with a more powerful chipset that lowers CPU usage. The new port adapters lower CPU use by more than 15 percent.

The new port adapters can perform at line-rate performance with lower CPU usage on the Cisco 7200 Series, Cisco 7201, and Cisco 7301 platforms while providing scalable trunking services. Table 1 lists the router platforms and Cisco IOS® Software releases that support these features.

**Table 1.** Features Table

Feature	Supporting Platform	Cisco IOS Software Release
Line-rate performance: Up to 44.736 Mbps per T3 port	Cisco 7204VXR and Cisco 7206VXR NPE-400, NPE-G1, and NPE-G2 Network Processing Engines, Cisco 7201, and Cisco 7301	12.4(15)T1
Line-rate performance: Up to 34.736 Mbps per E3 port	Cisco 7204VXR and Cisco 7206VXR NPE-400, NPE-G1, and NPE-G2, Cisco 7201, and Cisco 7301	12.4(15)T1
Lower CPU usage	Cisco 7204VXR and Cisco 7206VXR NPE-400, NPE-G1, and NPE-G2, Cisco 7201, and Cisco 7301	12.4(15)T1

### New Features

The following features are delivered by the intelligent hardware of the Cisco 1- and 2-Port Clear Channel Enhanced Capability Port Adapters:

- Two-in-one T3 or E3 provisioning in one product
- Improved line-rate performance while lowering overall system CPU use

### Upgrade Paths

Cisco 7204VXR, Cisco 7206VXR, Cisco 7301, and Cisco 7201 customers who wish to upgrade from the earlier port adapters (part numbers PA-T3+, PA-2T3+, PA-E3, and PA-2E3) and desire T3/E3 line-rate performance as well as the convenience of sparing or certifying one product in their network should consider migrating to the Cisco 1- and 2-Port Clear Channel Enhanced Capability Port Adapters. These new adapters are supported by the Cisco NPE-400, NPE-G1, and NPE-G2 Network Processing Engines.

## Availability

The new port adapters began shipping in July 2007. The release of these new products coincided with Cisco IOS® Software Release 12.4(15)T1.

## Ordering Information

Table 2 gives ordering information for the new port adapters.

**Table 2.** Ordering Information for Cisco 1- and 2-Port Clear Channel Enhanced Capability Port Adapters

Part Number	Description
PA-T3/E3-EC	Cisco 1-Port Clear Channel Enhanced Capability Port Adapter
PA-T3/E3-EC=	Cisco 1-Port Clear Channel Enhanced Capability Port Adapter (SPARE)
PA-2T3/E3-EC	Cisco 2-Port Clear Channel Enhanced Capability Port Adapter
PA-2T3/E3-EC=	Cisco 2-Port Clear Channel Enhanced Capability Port Adapter (SPARE)

## For More Information

For more information about the Cisco 1- and 2-Port Clear Channel Enhanced Capability Port Adapters, visit the Cisco Serial Port Adapter section at

[http://www.cisco.com/en/US/products/hw/modules/ps2033/prod\\_module\\_series\\_home.html](http://www.cisco.com/en/US/products/hw/modules/ps2033/prod_module_series_home.html) or

contact your local Cisco account representative.



**Americas Headquarters**  
Cisco Systems, Inc.  
170 West Tasman Drive  
San Jose, CA 95134-1706  
USA  
www.cisco.com  
Tel: 408 526-4000  
800 553-NETS (6387)  
Fax: 408 527-0689

**Asia Pacific Headquarters**  
Cisco Systems, Inc.  
155 Robinson Road  
#29-01 Capital Tower  
Singapore 068912  
www.cisco.com  
Tel: +65 6317 7777  
Fax: +65 6317 7799

**Europe Headquarters**  
Cisco Systems International BV  
Heerlenbergpark  
Heerlenbergweg 13-18  
1101 CH Amsterdam  
The Netherlands  
www.europe.cisco.com  
Tel: +31 20 60 020 0/91  
Fax: +31 20 60 020 1100

Cisco has more than 200 offices worldwide. Addresses, phone numbers, and fax numbers are listed on the Cisco Website at [www.cisco.com/go/offices](http://www.cisco.com/go/offices).

©2007 Cisco Systems, Inc. All rights reserved. CCVP, the Cisco logo, and the Cisco Square Bridge logo are trademarks of Cisco Systems, Inc.; Changing the Way We Work, Live, Play, and Learn is a service mark of Cisco Systems, Inc.; and Access Registrar, Airnet, BPK, Catalyst, CCD, CCDA, CCDP, CCIE, CCR, CCNA, CCNP, CCSP, Cisco, the Cisco Certified Internetwork Expert logo, Cisco IOS, Cisco Press, Cisco Systems, Cisco Systems Capital, the Cisco Systems logo, Cisco Unity, Enterprise/Solver, EtherChannel, EtherFast, EtherSwitch, Fast, Step, Follow Me Browsing, FormShare, Go to Drive, HomeLink, Internet Quotient, IOS, IPPhone, IPTV, IQ Expertise, the IQ logo, IQ Not Ready, Note Scorecard, QuickStudy, SignStream, Unify, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, ScriptShare, SMARTnet, SecureWise, The Fastest Way to Increase Your Internet Quotient, and TransPath are registered trademarks of Cisco Systems, Inc. and/or its affiliates in the United States and certain other countries.

All other trademarks mentioned in this document or Website are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (9705R)