

## Cisco 1-Port OC-3/STM-1 Packet-Over-Sonet Port Adapter

To meet the need for increased router features and performance, Cisco Systems® introduces its newest packet-over-SONET (POS) port adapter: the Cisco 1-Port OC-3/STM-1 POS Port Adapter. The Cisco® 1-Port OC-3/STM-1 POS Port Adapter is ideal for service providers or large enterprises that need to deploy line-rate OC-3/STM-1 connectivity with choice of optics.

The Cisco 1-Port OC-3/STM-1 POS Port Adapter (shown in Figure 1) combines superior performance and an innovative design to provide the following benefits:

- Line-rate performance
- Automatic protection switching (APS) failover between cards
- Modular, pluggable optics; three types are available: Multimode (MM), Single-Mode Intermediate Reach (IR1), and Single-Mode Long Reach (LR1).

**Figure 1.** Cisco 1-Port OC-3/STM-1 POS Port Adapter Modular Optics



### Features and Benefits

Table 1 describes the features and benefits of the Cisco 1-Port OC-3/STM-1 POS Port Adapter.

**Table 1.** Features and Benefits of the Cisco 1-Port OC-3/STM-1 POS Port Adapter

Features	Benefits
<b>Performance</b>	Depending on processing engine, provides line-rate bidirectional performance
<b>APS</b>	Provides failover protection between POS port adapters
<b>Modular Small Form-Factor Pluggable (SFP) optics</b>	Greater flexibility in deployment and choice of optics

Performance constrained only by processing engine

### Modular Optics

The Cisco 1-Port OC-3/STM-1 POS Port Adapter offers support for one modular SFP optics. Figure 1 illustrates the port adapter modular optics.

### SFP Optics

The Cisco 1-Port OC-3/STM-1 POS Port Adapter supports one port of any of the following SFP optics: MM, IR1, and LR1. The "Product Ordering" section of this document provides product part numbers for the SFPs used with the Cisco 1-Port OC-3/STM-1 POS Port Adapter.

## Product Specifications

### Chassis and Processors

The Cisco 1-Port OC-3/STM-1 POS Port Adapter is supported on the platforms and processors listed in Table 2.

**Table 2.** Chassis and Processor Compatibility

Chassis	Processors
Cisco 7204VXR, 7206VXR, 7301	NPE-G2, NPE-G1, NPE-400
Cisco 7304	NSE-100 and NPE-G100
Cisco 7600	FlexWan and Enhanced FlexWan

### Port Adapters

The Cisco 1-Port OC-3/STM-1 POS Port Adapter interoperates with all OC-3 POS port adapters with the Cisco 7200VXR, 7301, 7304, and 7600 Series routers.

### Software

The Cisco 1-Port OC-3/STM-1 POS Port Adapter is supported in Cisco IOS® Software Release 12.3(10), 12.0S, 12.2S, 12.2SX, 12.2(28)SB, 12.4XD and later. The Cisco 7304 supports this PA in 12.2(31)SB and above. Consult your Cisco representative for more details.

### Key Features

The primary features of the Cisco 1-Port OC-3/STM-1 POS Port Adapter are described in this section.

#### Hardware and Software Features

- Single-wide port adapter form factor
- One concatenated OC-3/STM-1 port
- Line-rate performance
- Online insertion and removal (OIR)
- Modular optics supporting single-mode (intermediate reach and long reach) and multimode

## Product Specifications

### Physical

- Weight: Approximately 14 ounces
- Dimensions (H x W x D): Approximately 1 x 6 5/8 x 5 inches (body only)
- Approximately 1 x 6 5/8 x 7 inches (overall)

**Environmental**

- Storage temperature: -38 to 150°F (-40 to 70°C)
- Operating temperature, nominal: 25°C (ranges 0 to 40°C)
- Storage relative humidity: 5 to 95 percent relative humidity (RH)
- Operating humidity, nominal: 5 to 85 percent RH
- Operating humidity, short-term: 5 to 90 percent RH
- Operating altitude: -60 to 2000 meters

**Regulatory Compliance**

- CE Marking

**Safety**

- UL 60950
- IEC 60950
- EN 60950
- CAN/CSA-C22.2 No. 60950
- AS/NZS 3260

**EMC**

- FCC Part 15 (CFR 47) Class A
- ICES-003 Class A
- EN55022 Class A
- CISPR22 Class A
- AS/NZS 3548 Class A
- VCCI Class A
- EN55024
- ETS300 386
- EN50082-1
- EN61000-3-2
- EN61000-3-3
- EN61000-6-1

**Product Ordering Details**

For more information about how to order the products listed in Tables 3 and 4, visit:

[http://www.cisco.com/public/ordering\\_info.shtml](http://www.cisco.com/public/ordering_info.shtml).

**Table 3.** Port Adapter Ordering Information

Product Number	Product Description
<b>PA-POS-10C3</b>	Cisco 1-Port OC-3/STM-1 POS Port Adapter
<b>PA-POS-10C3=</b>	Cisco 1-Port OC-3/STM-1 POS Port Adapter (SPARE)

**Table 4.** SFP Ordering Information

Product Number	Product Description
<b>SFP-OC3-MM</b>	OC-3/STM-1 POS SFP, multimode fiber, short range (MM)
<b>SFP-OC3-IR1</b>	OC-3/STM-1 POS SFP, single-mode fiber, intermediate range (SMI)
<b>SFP-OC3-LR1</b>	OC-3/STM-1 POS SFP, single-mode fiber, long range (SML)

## Service and Support

Cisco Systems offers a wide range of service and support options for its customers.

For more information about Cisco service and support programs and benefits, visit:

[http://www.cisco.com/public/Support\\_root.shtml](http://www.cisco.com/public/Support_root.shtml).



**Americas Headquarters**  
 Cisco Systems, Inc.  
 170 West Tasman Drive  
 San Jose, CA 95134-1706  
 USA  
[www.cisco.com](http://www.cisco.com)  
 Tel: 408 526-4000  
 800 553-NETS (6387)  
 Fax: 408 527-0883

**Asia Pacific Headquarters**  
 Cisco Systems, Inc.  
 168 Robinson Road  
 #28-01 Capital Tower  
 Singapore 068912  
[www.cisco.com](http://www.cisco.com)  
 Tel: +65 6317 7777  
 Fax: +65 6317 7799

**Europe Headquarters**  
 Cisco Systems International BV  
 Haarlerbergpark  
 Haarlerbergweg 13-19  
 1101 CH Amsterdam  
 The Netherlands  
[www-europe.cisco.com](http://www-europe.cisco.com)  
 Tel: +31 0 800 020 0791  
 Fax: +31 0 20 357 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).

©2006 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, Aironet, BPX, Catalyst, CCDA, CCDP, CCIE, CCIP, 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, GigaDrive, GigaStack, HomeLink, Internet Quotient, IOS, IP/TV, iQ Expertise, the iQ logo, iQ Net Readiness Scorecard, iQuick Study, LightStream, Linksys, MeetingPlace, MGX, Networking Academy, Network Registrar, Packet, PIX, ProConnect, RateMUX, ScriptShare, SlideCast, SMARTnet, StackWise, 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. (0609R)