

Data Sheet

Cisco 2-Port OC-3/STM-1 Packet-over-SONET Port Adapter

To meet the continual need for increased router features and performance, Cisco Systems® introduces its newest packetover-SONET (POS) port adapter, the Cisco® 2-Port OC-3/STM-1 POS Port Adapter. The 2-Port OC-3/STM-1 POS Port Adapter is ideal for service providers or large enterprises that need to deploy multiple ports of OC-3/STM-1 connectivity or a single OC-3/STM-1 port with redundancy and failover support.

The 2-Port OC-3/STM-1 POS Port Adapter (Figure 1) combines superior performance and an innovative design to provide the following benefits:

- Σ Dual-port, line-rate performance
- Σ Automatic protection switching (APS) failover between ports
- Σ Modular, pluggable optics (Three types are available: multimode fiber, short range [MM]; single-mode fiber, intermediate range [SMIR]; and single-mode fiber, long range [SMLR])

Figure 1
Cisco 2-Port OC-3/STM-1 POS Port Adapter



Features and Benefits

Table 1 describes the features and benefits of the Cisco 2-Port OC-3/STM-1 POS Port Adapter.

Table 1. Features and Benefits of the Cisco 2-Port OC-3/STM-1 POS Port Adapter

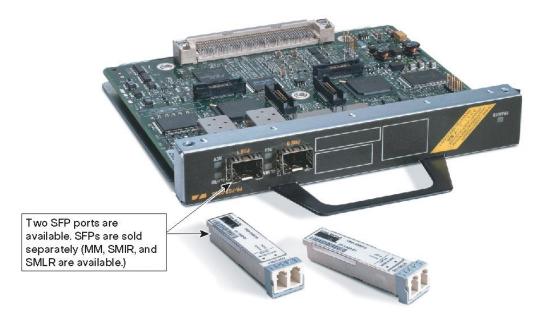
Features	Benefits
Dual port connectivity	Greater per-slot density for Cisco platforms using port adapter technology (for example, on the Cisco 7200 or Cisco 7400 Series)
Performance	Depending on processing engine, provides line-rate bidirectional performance across both ports*
APS	Provides failover protection between POS ports and/or port adapters
Modular Small Form-Factor Pluggable (SFP) optics	Greater flexibility in deployment and sparing; allows for mixed optics on a single port adapter

^{*} Performance constrained only by processing engine

Modular Optics

The 2-Port OC-3/STM-1 POS Port Adapter offers support for two modular SFP optics. Figure 2 illustrates these ports.

Figure 2
Cisco 2-Port OC-3/STM-1 POS Port Adapter Modular Optics



SFP Optics

The 2-Port OC-3/STM-1 POS Port Adapter supports two ports of any of the following SFP optics: multimode (MM), single-mode fiber intermediate range (IR), and single-mode fiber long range (LR). Two different module types may be mixed in the same port adapter. The Product Ordering section of this document provides product part numbers for the SFPs used with the 2-Port OC-3/STM-1 POS Port Adapter.

Product Specifications

Chassis and Processors

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

Table 2. Chassis and Processor Compatibility

Chassis	Processors
Cisco 7204VXR, 7206VXR, 7301	NPE-G1, NPE-400, NSE-1
Cisco 7304	NSE-100 and NPE-G100
Cisco 7505, 7507, 7513	VIP6-80, VIP4-80; RSP 16, RSP 8
Cisco 7600	FlexWan and the Enhanced FlexWan

Port Adapters

The 2-Port OC-3/STM-1 POS Port Adapter interoperates with all port adapters that are available for order (as of January 2003) with the Cisco 7200VXR, 7301, 7304, 7500, and 7600 routers.

Software

The 2-Port OC-3/STM-1 POS Port Adapter is supported in Cisco IOS® Software Release 12.2(13)ZE, 12.3, 12.3T, 12.2S(RLS3), 12.0(27)S, and later. Consult your Cisco representative for more details.

Key Features

The primary features of the 2-Port OC-3/STM-1 POS Port Adapter are described in this section.

Hardware and Software Features

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

Product Specifications

Physical

- Σ Weight: Approximately 14 oz
- Σ Dimensions (H x W x D): Approximately 1 in. x 6 5/8 in. x 5 in. (body only)
- Σ Approximately 1 in. x 6 5/8 in. x 7 in. (overall)

Environmental

- Σ Storage temperature: -38 to 150°F (-40 to 70°C)
- Σ Operating temperature, nominal: 25°C (ranges 0–40°C)
- Σ Operating temperature, short term: 23 to 131°F (-5 to 55°C)
- Σ Storage relative humidity: 5 to 95% relative humidity (RH)
- Σ Operating humidity, nominal: 5 to 85% RH
- Σ Operating humidity, short term: 5 to 90% RH
- Σ Operating altitude: -60 to 2000 m

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

Please visit: https://www.cisco.com/c/en/us/services/order-services.html to place an order using the information in Tables 3 and 4.

Table 3. Port Adapter Ordering Information

Product Number	Product Description
PA-POS-2OC3	Cisco 2-Port OC-3/STM-1 POS Port Adapter
PA-POS-2OC3=	Cisco 2-Port OC-3/STM-1 POS Port Adapter (Spare)

 Table 4.
 SFP Ordering Information

Product Number	Product Description
SFP-OC3-MM	OC-3/STM-1 POS SFP, multimode fiber, short range (MM)
SFP-OC3-IR1	OC-3/STM-1 POS SFP, single-mode fiber, intermediate range (SMI)
SFP-OC3-LR1	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. More information about Cisco service and support programs and benefits can be found at: http://www.cisco.com/en/us/support.

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