SPA-8XOC12-POS Datasheet

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Overview

The Cisco 8-Port OC-12 POS SPAs SPA-8XOC12-POS is available on high-end Cisco Systems routing platforms offering the benefits of network scalability with lower initial costs and ease of upgrades. The Cisco SPA/SIP portfolio continues the Cisco focus on investment protection along with consistent feature support, broad interface availability, and the latest technology. The Cisco SPA/SIP portfolio allows different interfaces (Packet over SONET/SDH [POS], ATM, Ethernet, and so on) to be deployed on the same interface processor.

Quick Spec

Figure 1 shows the appearance of SPA-8XOC12-POS.

Table 1 shows the quick spec.

Model	SPA-8XOC12-POS
Description	Cisco ASR 9000 AdapterSPA-8XOC12-POS8-port OC12/STM4 POS Shared Port Adapters
Product Name	Cisco 8-Port OC-12c/STM-4 POS SPA
Product compatibility	Cisco ASR 9000 Series Router
Port density per SPA	8 ports
Physical specifications	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)
Power	8xOC-12 max w/o optics = 10.0W

Supported Devices

Table 2 shows the supported ASR 9000 routers chassis.

Model	Description
ASR-9010-DC	Cisco ASR 9010 DC chassis
ASR-9010-AC	Cisco ASR 9010 AC chassis

ASR-9010-AC-V2	ASR 9010 AC Chassis with PEM Version 2
ASR-9010-DC-V2	ASR 9010 DC Chassis with PEM Version 2
ASR-9006-DC	Cisco ASR 9006 DC chassis
ASR-9006-AC	Cisco ASR 9006 AC chassis
ASR-9006-AC-V2	ASR 9006 AC Chassis with PEM Version 2
ASR-9006-DC-V2	ASR 9006 DC Chassis with PEM Version 2

Compare to Similar Items

Table 3 shows the comparison between SPA-8XOC12-POS and SPA-8XOC3-POS.

Product Code	SPA-8XOC12-POS	SPA-8XOC3-POS
Description	Cisco ASR 9000 Adapter, SPA-8XOC12-POS, 8-port OC12/STM4 POS Shared Port Adapters	Cisco ASR 9000 Adapter, SPA-8XOC3-POS, 8-port OC-3/STM-1 POS Shared Port Adapters
Product Name	Cisco 8-Port OC-12c/STM-4 POS SPA	Cisco 8-Port OC-3c/STM-1 POS SPA
Product compatibility	Cisco ASR 9000 Series Router	Cisco 12000 Series Routers Cisco XR 12000 Series Routers Cisco ASR 1000 Series Router Cisco ASR 9000 Series Router
Port density per SPA	8 ports	8 ports
Physical specifications	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)

Get more information

Do you have any question about the SPA-8XOC12-POS adapter?

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Specification

SPA-8XOC12-POS specifications	
Description	Cisco ASR 9000 Adapter, SPA-8XOC12-POS, 8-port OC12/STM4 POS Shared Port Adapters
Product Name	Cisco 8-Port OC-12c/STM-4 POS SPA
Product compatibility	Cisco ASR 9000 Series Router
Port density per SPA	8 ports
Physical interface	OC-12c/STM-4 SFP optics module Visual status indicators (LEDs): • SPA status LED • Per-port LEDs • Carrier and alarm • Active and loopback
Protocols	• RFC 1662 PPP in High-Level Data Link Control (HDLC)-like framing • RFC 2615 Point-to-Point Protocol (PPP) over SONET/SDH • RFC 2427, Multiprotocol Interconnect over Frame Relay • IPv4/IPv6

Features and functions	• Multirate mode support (OC-3 and OC-12) • Synchronization • Local (internal) or loop timed (recovered from network) • Pointer activity monitoring • Local (diagnostic) and line (network) loopback • Payload mapping • POS with 1 + X^43 self-synchronous scrambler • SONET/SDH compliance • Telcordia (Bellcore) GR-253-CORE (as applicable) • ANSI T1.105, T1.231 • ITU-T G.707, G.957, G.825 (as applicable) Supported SONET/SDH alarm and signal events • Signal failure bit error rate (SF-ber) • Signal degrade bit error rate (SD-ber) • Signal label payload construction (C2) • Path trace byte (J1) • Section • Loss of signal (LoS) • Loss of frame (LoF) • Error counts for B1 • Threshold crossing alarms (TCA) for B1 • Line • Line alarm indication signal (LAIS) • Line remote defect indication (LRDI) • Line remote error indication (LREI) • Error counts for B2 • TCA for B2 • Path • Path alarm indication signal (PAIS) • Path remote defect indication (PRDI) • Path remote error indication (PREI) • Error counts for B3 • TCA for B3 • Loss of pointer (LoP) • Positive stuffing event (PSE) • Negative stuffing event (NSE) • Path unequipped indication signal (PUNEQ) • Path payload mismatch indication signal (PPLM)
Network management	• RFC 2558 MIB (SONET/SDH) • Simple Network Management Protocol (SNMP)
Reliability and availability	• Online insertion and removal (OIR) • Field-replaceable SFP optical modules • 1+1 SONET Automatic Protection Switching (APS) and SDH Linear Multiplexer Section Protection (MSP) protocols • Single SPA software reset
Physical specifications	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)
Power	8xOC-12 max w/o optics = 10.0W
Environmental specifications	• Operating temperature: 41 to 104°F (5 to 40°C) • Storage temperature: -38 to 150°F (-40 to 70°C) • Operating humidity: 5 to 85% relative humidity • Storage humidity: 5 to 95% relative humidity

| Compliance and agency approvals | Safety
• UL 60950
• CSA 22.2-No.60950
• EN60950
• IEC 60950 CB Scheme
• ACA TS001
• AS/NZS 3260
• EN60825\IEC60825 laser safety (SR, IR-Class 1) (VSR-Class 1M)1
• 21CFR1040 -FDA Code of Federal Regulations (USA) laser safety (SR, IR-Class 1) (VSR-Class 1M)1
EMC
• FCC Part 15 (CFR 47)
• ICES 003
• EN55022
• CISPR 22
• AS/NZS CISPR22
• VCCI Class A
• EN55024
• EN50082-1
• EN61000-6-1
• EN61000-3-2
• EN61000-3-3
Network Equipment Building System (NEBS)
This product is designed to meet the following requirements (official qualification may be in progress):
• SR-3580-NEBS: Criteria levels (Level 3 compliant)
• GR-63-Core-NEBS: Physical protection
• GR-1089-Core-NEBS: EMC and safety
ETSI
• EN300 386/EN300 386-2 Class B
• ETS 300 019 Storage Class 1.1
• ETS 300 019 Transportation Class 2.3
• ETS 300 019 Stationary Use Class 3.1 |

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