

SPA-OC192POS-XFP Datasheet

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Overview

The Cisco 1-Port OC-192 POS SPA SPA-OC192POS-XFP is available on high-end Cisco routing platforms, offering the benefits of network scalability with lower initial costs and easy upgrades. The Cisco SPA/SIP portfolio continues Cisco's 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, etc.) to be deployed on the same interface processor.

The Cisco 1-Port OC-192 POS SPA provides 10-Gbps Small Form-Factor Pluggable (XFP) interfaces in addition to fixed interfaces. SPA configurations are available to support multiple optical reaches from 300 meters to 80 kilometers.

Quick Spec

Figure 1 shows the appearance of SPA-OC192POS-XFP.



Table 1 shows the quick spec.

Model	SPA-OC192POS-XFP
Description	Cisco ASR 9000 Adapter, SPA-OC192POS-XFP, 1-port OC192/STM64 POS/RPR XFP Optics
Product Name	Cisco 1-Port OC-192c/STM-64c POS/RPR Shared Port Adapter with XFP Optics
Product compatibility	• Cisco ASR 1000 Series Router • Cisco ASR 9000 Series Router
Port density per SPA	• 1 port • DPT/RPR configuration - two SPAs are needed to connect to one RPR ring
Physical specifications	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height - XFP interface) • Height: 1.6 in. (4.06 cm) (double height - VSR, LR fixed optics) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)
Power	15.5W maximum

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-OC192POS-XFPand SPA-8XOC12-POS.

Product Code	SPA-OC192POS-XFP	SPA-8XOC12-POS
Description	Cisco ASR 9000 Adapter, SPA-OC192POS-XFP, 1-port OC192/STM64 POS/RPR XFP Optics	Cisco ASR 9000 Adapter, SPA-8XOC12-POS, 8-port OC12/STM4 POS Shared Port Adapters
Product Name	Cisco 1-Port OC-192c/STM-64c POS/RPR Shared Port Adapter with XFP Optics	Cisco 8-Port OC-12c/STM-4 POS SPA
Product compatibility	• Cisco ASR 1000 Series Router • Cisco ASR 9000 Series Router	Cisco ASR 9000 Series Router
Port density per SPA	• 1 port • DPT/RPR configuration - two SPAs are needed to connect to one RPR ring	8 ports
Physical specifications	• Weight: 0.75 lb (0.34 kg) • Height: 0.8 in. (2.03 cm) (single height - XFP interface) • Height: 1.6 in. (4.06 cm) (double height - VSR, LR fixed optics) • 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-OC192POS-XFP adapter?

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Specification

SPA-OC192POS-XFP specifications	
Description	Cisco ASR 9000 Adapter, SPA-OC192POS-XFP, 1-port OC192/STM64 POS/RPR XFP Optics
Product Name	Cisco 1-Port OC-192c/STM-64c POS/RPR Shared Port Adapter with XFP Optics
Product compatibility	• Cisco ASR 1000 Series Router • Cisco ASR 9000 Series Router
Port density per SPA	• 1 port • DPT/RPR configuration - two SPAs are needed to connect to one RPR ring

Physical interface	• OC-192c/STM-64c fixed interface or pluggable (XFP) optics module • Connector: • XFP-LC connector • Long reach (LR)-SC connector • Very short reach (VSR)-Standard media termination point (MTP) (multipath optical [MPO]) multifiber optical connectors • RPR operation requires a mate cable-part number CBL-RPR-OC192-L or CBL-RPR-OC192-S • Visual status indicators (LEDs): • SPA status LED • Per-port LEDs • Carrier and alarm • Active and loopback • Protect • Pass-through
Protocols	• High-Level Data Link Control (HDLC), RFC 2615 • Point-to-Point Protocol (PPP), RFC 1662 • Frame Relay, RFC 2427 • IPv4/IPv6 • IEEE 802.17 RPR • IETF 2892-SRP
Features and functions	• Synchronization • Local (internal) or loop timed (recovered from network) • Layer 3 clock accuracy (± 4.6 ppm) over full operating temperature • Pointer activity monitoring • Local (diagnostic) and line (network) loopback • Section data communication channel (SDCC) -platform-dependent feature • Payload mapping • $1 + x^{43}$ self-synchronous scrambler • SONET/SDH compliance • Telcordia (Bellcore) GR-253-CORE (as applicable) • ANSI T1.105, and T1.231 • ITU-T G.707, G.957, and 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 • Error counts for B2 • Threshold crossing alarms (TCA) for B2 • Line • Line alarm indication signal (LAIS) • Line remote defect indication (LRDI) • Line remote error indication (LREI) • 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 XFP optical modules • 1 + 1 SONET automatic-protection-switching (APS) and SDH linear multiplex-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 - XFP interface) • Height: 1.6 in. (4.06 cm) (double height - VSR, LR fixed optics) • Width: 6.75 in. (17.15 cm) • Depth: 7.28 in. (18.49 cm)

Power	15.5W maximum
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/NZ 3548 • VCCI • 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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