SPA-2X1GE-V2 Datasheet

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Overview

The Cisco SPA-2X1GE-V2 is available on high-end Cisco routing platforms, offering the benefits of network scalability with lower initial costs and ease of upgrades. The Cisco SPA portfolio continues the company's focus on investment protection along with consistent feature support, broad interface availability, and the latest technology. The Cisco SPA portfolio allows deployment of different interfaces (Packet over SONET/SDH [PoS], ATM, Ethernet, etc.) on the same interface processor.

This SPA-2X1GE-V2 is similar with the SPA-2X1GE-V2=. The SPA-2X1GE-V2= is a spare one.

Quick Specs

Figure 1 shows the appearance of SPA-2X1GE-V2.

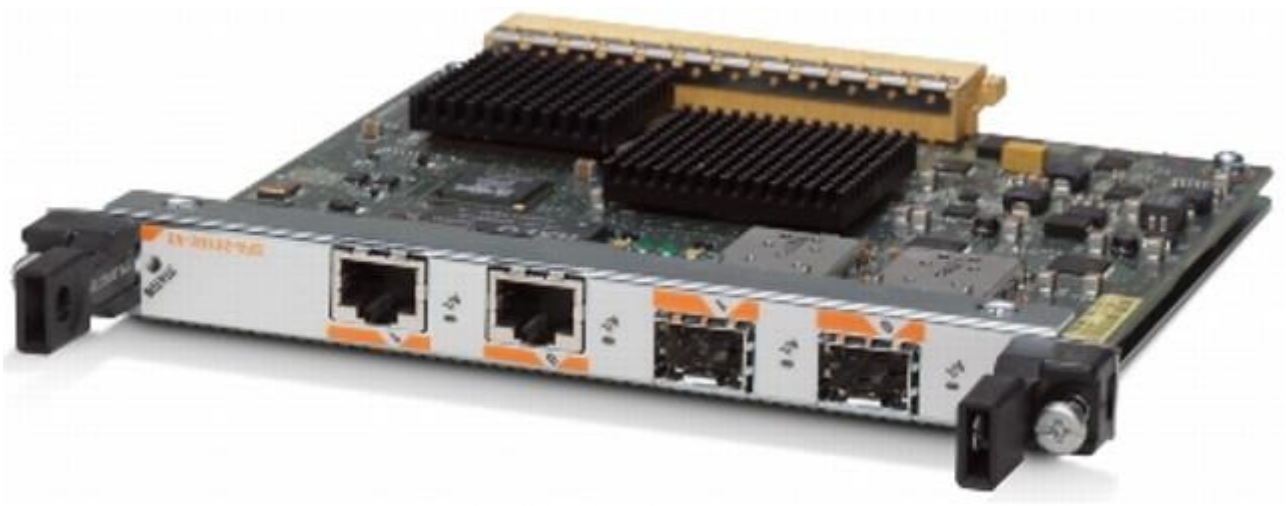

Table 1 shows the Quick Specs.

Product Code	SPA-2X1GE-V2
Product compatibility	Cisco Catalyst 6500 Series Switches (2 and 10-port GE SPAs) Cisco 7600 Series Router (2-, 5-, and 10-port GE SPAs) Cisco 12000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) Cisco XR 12000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) Cisco ASR 1000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) Cisco 10000 Series Router (2 and 5-port GE SPAs)
Port density per SPA	2*, 5, 8, or 10 Gigabit Ethernet ports * Usable in combination of SFP and RJ-45 ports for a total of 2 Gigabit Ethernet ports
Physical interfaces	Short wavelength (SX) Long reach/long haul (LX/LH) Extended distance (ZX) SFP SFP-GE-T (5-, 8-, and 10-port Gigabit Ethernet SPAs) Built-in RJ-45 (2-port Gigabit Ethernet SPA)
Reliability and availability	OIR of the SPA within the SIP and the optics within the SPA Field-replaceable SFP optical modules
Physical specifications	2-port Gigabit Ethernet SPAs: 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	2-port Gigabit Ethernet: SPA: 13.1W

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Do you have any question about the SPA-2X1GE-V2?

Contact us now via Live Chat or support@netgenetics.com

Specification

SPA-2X1GE-V2 Specification	
Product compatibility	• Cisco Catalyst 6500 Series Switches (2 and 10-port GE SPAs) • Cisco 7600 Series Router (2-, 5-, and 10-port GE SPAs) • Cisco 12000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) • Cisco XR 12000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) • Cisco ASR 1000 Series Router (2-, 5-, 8-, and 10-port GE SPAs) • Cisco CRS Carrier Routing System (5-, 8-, and 10-port GE SPAs) • Cisco 10000 Series Router (2 and 5-port GE SPAs)
Port density per SPA	2*, 5, 8, or 10 Gigabit Ethernet ports * Usable in combination of SFP and RJ-45 ports for a total of 2 Gigabit Ethernet ports
Physical interfaces	• Short wavelength (SX) • Long reach/long haul (LX/LH) • Extended distance (ZX) SFP • SFP-GE-T (5-, 8-, and 10-port Gigabit Ethernet SPAs) • Built-in RJ-45 (2-port Gigabit Ethernet SPA)
LED indicators	SPA status: Bicolor green and amber LEDs encode the SPA status as follows: • LED off: SPA is powered off • LED amber: SPA is powered on and initializing • LED green: SPA is powered on and operational In addition to the status LED, the SPAs also have a bicolor, surface-mount, right-angle LED dedicated to each port to indicate port status. The green and amber LEDs encode the port status as follows: • LED off: Port is not enabled by software • LED: Port is enabled by software, but there is a problem with the Ethernet link • LED green: Port is enabled by software, and there is a valid Ethernet link
Features and functions	• Autonegotiation • Full-duplex operation • 802.1Q VLAN termination • 802.1ad QinQ termination (stacked VLAN processing) • Jumbo Frames support (9188 bytes) • Support for command-line interface (CLI)-controlled online insertion and removal (OIR) • 802.3x flow control • Bridge protocol data unit (BPDU), Cisco Discovery Protocol, and VLAN Trunking Protocol (VTP) filtering • Layer 2 Protocol (BPDU, Cisco Discovery Protocol, and VTP) Tunneling • Layer 2 access list (MAC address-based filtering) • Up to 8000 VLANs per SPA and subject to a limit of 4000 VLANs per port for 802.1q • Up to 5000 MAC accounting entries per SPA (source MAC accounting on the ingress, and destination MAC accounting on the egress) • Up to 2000 MAC address entries for destination MAC address filtering per SPA, and up to 1000 MAC address filtering entries per port • Per-port byte and packet counters for policy drops; oversubscription drops; cyclic redundancy check (CRC) error drops; packet sizes; and unicast, multicast, and broadcast packets • Per-VLAN byte and packet counters for policy drops; oversubscription drops; and unicast, multicast, and broadcast packets • Per-port byte counters for good bytes and dropped bytes

Network management	Network management using: • Host-system CLI • Simple Network Management Protocol (SNMP) Inventory- and asset management-related MIBs: • Entity-MIB (RFC 2737) • Cisco-entity-asset-MIB Fault management: • Cisco-entity-field-replaceable unit (FRU)-control-MIB • Cisco-entity-alarm-MIB • Cisco-entity-sensor-MIB Physical interface management: • IF-MIB • Etherlike-MIB (RFC 2665) Other MIBs: • Remote Monitoring (RMON)-MIB (RFC 1757) • Cisco-class-based-QoS-MIB • MPLS-related MIBs • Ethernet MIB/RMON
Reliability and availability	• OIR of the SPA within the SIP and the optics within the SPA • Field-replaceable SFP optical modules
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	SPA: 13.1W
Environmental specifications	• Storage temperature: -38 to 150°F (-40 to 70°C) • Operating temperature, nominal: 32 to 104°F (0 to 40°C) • Operating temperature, short term: 32 to 131°F (0 to 55°C) • Storage relative humidity: 5 to 95% relative humidity • Operating humidity, nominal: 5 to 85% relative humidity • Operating humidity, short term: 5 to 90% relative humidity • Operating altitude: -60 to 4000m
Compliance and agency approvals	Safety • UL 60950-1 • CSA C22 No. 60950-1 • EN 60950-1 • IEC 60950-1 • AS/NZS 60950 • EN 60825-1 • EN 60825-2 • 21 CRF 1040 EMC • CFR 47 • FCC Part 15-Class A • ICES 003-Class A • CISPR 22 Class A • EN 55022 Class A • EN 300386 Class A • AS/NZS Class A • VCCI-Class B • EN 50082-1 • EN 55024 • IEC/EN61000-4-2 Electrostatic Discharge Immunity (8-kV contact, 15-kV air) • IEC/EN61000-4-3 Radiated Immunity (10 V/m) • IEC/EN61000-4-4 Electrical Fast Transient Immunity (2-kV power, 1-kV signal) • IEC/EN61000-4-5 Surge AC Port (4-kV CM, 2-kV DM) • IEC/EN61000-4-5 Surge Signal Port (1-kV indoor, 2-kV outdoor) • IEC/EN61000-4-5 Surge DC Port (1 kV) • IEC/EN61000-4-6 Immunity to Conducted Disturbances (10 Vrms) • IEC/EN61000-4-8 Power Frequency Magnetic Field Immunity (30 A/m) • IEC/EN61000-4-11 Voltage Dips, Short Interruptions, and Voltage Variations Telecom • IEEE 802.3z Industry Standards The Cisco Gigabit Ethernet SPAs are designed to meet the following requirements (some qualifications are currently in progress): • SR-3580 Network Equipment Building Standards (NEBS): criteria levels (Level 3 compliant) • GR-63-CORE-NEBS: Physical protection • GR-1089-CORE-NEBS EMC and safety

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