

CISCO SPA-5X1GE-V2

2-, 5-, 8-, AND 10-PORT GIGABIT ETHERNET SHARED PORT ADAPTERS, VERSION 2



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 two 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 two Protocol (BPDU, Cisco Discovery Protocol, and VTP) Tunneling
Layer two 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

RELIABILITY AND AVAILABILITY

OIR of the SPA within the SIP and the Optics within the SPA
Field replaceable SFP optical Modules

PHYSICAL SPECIFICATIONS

5 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)Field replaceable SFP optical Modules

POWER

2 Port Gigabit Ethernet: SPA: 13.1W
5 Port Gigabit Ethernet SPA: 18.1W
8 Port Gigabit Ethernet SPA: 20W (with SX and LX Optics); 22.3W (with ZX Optics)
10 Port Gigabit Ethernet SPA: 25W

ENVIRONMENTAL SPECIFICATIONS

Storage Temperature: -38-150°F (-40 to 70°C)
Operating Temperature, nominal: 32-104°F (0 to 40°C)
Operating Temperature, short term: 32-131°F (0 to 55°C)
Storage relative Humidity: 5-95% relative humidity
Operating Humidity, nominal: 5-85% relative humidity
Operating Humidity, short term: 5-90% relative humidity
Operating Altitude: -60-4000m

GIGABIT ETHERNET SFP OPTICS	MAXIMUM DISTANCE
SX SFP Optics	1804 ft (550m)
LX/LH SFP Optics	6.2 mi (10 km)
ZX SFP Optics	43.5 mi (70 km)
Copper (RJ-45) SFP Optics	328 ft (100m)