

CISCO SPA-1X10GE-L-V2

1-PORT 10 GIGABIT ETHERNET SHARED PORT ADAPTER, VERSION 2



PRODUCT COMPATIBILITY

Cisco Catalyst 6500 Series Switches
Cisco 7600 Series Routers
Cisco 12000 Series Routers
Cisco XR 12000 Series Routers
Cisco ASR 1000 Series Router
Cisco CRS Carrier Routing System
Cisco 10000 Series Router

PORT DENSITY PER SPA

One 10 Gigabit Ethernet Port

PHYSICAL INTERFACE

10 Gbps XFP Optics

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 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 activated by Software

LED amber Port is activated by Software, but there is a Problem with the Ethernet Link

LED green Port is activated by Software, and there is a valid Ethernet Link

FEATURES AND FUNCTIONS

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 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;

Other Software Features supported:

Ethernet over Multiprotocol Label Switching (EoMPLS)

QoS

Hot Standby Router Protocol (HSRP)

Virtual Router Redundancy Protocol (VRRP)

RELIABILITY AND AVAILABILITY

OIR of the SPA within the SIP and the Optics within the SPA

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

19.9W

ENVIRONMENTAL

Storage Temperature: -38-150°F (-40 to 70°C)
 Operating Temperature, nominal: 32-104°F (0-40°C)
 Operating Temperature, short Term: 32-131°F (0-55°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: -604000 Meters

GIGABIT ETHERNET XFP OPTICS	MAXIMUM DISTANCE
10 Gigabit Ethernet long reach (LR) Optics (single mode Fiber)	6.2 mi (10 km)
10 Gigabit Ethernet extended reach (ER) Optics (single mode Fiber)	25 mi (40 km)
10 Gigabit Ethernet long haul (ZR) Optics (single-mode Fiber)	50 mi (80 km)