

Cisco ASR 1000 Series Shared Port Adapter Support

Product Overview

The Cisco® Interface Flexibility (I-Flex) design combines shared port adapters (SPAs) and SPA interface processors (SIPs), taking advantage of an extensible design that facilitates service prioritization for voice, video, and data services. SPAs provide the physical interfaces for router connectivity ranging from copper, channelized, POS, ATM and Ethernet. The Cisco® ASR 1000 Series SIP provides the physical termination for the SPAs and accepts up to four half-height and 2 full height Cisco SPAs. Enterprise and service provider customers can take advantage of improved slot economics resulting from modular port adapters that are interchangeable across Cisco routing platforms. The I-Flex design maximizes connectivity options and offers powerful service intelligence through programmable interface processors that deliver line-rate performance. I-Flex enhances speed-to-service revenue and provides a rich set of quality-of-service (QoS) features for premium service delivery while effectively reducing the overall cost of ownership. Figure 1 shows a sample of the wide range of SPAs supported on the Cisco ASR 1000 Series and Figure 2 shows the Cisco WebEx™ node for the Cisco ASR 1000 Series. Figure 3 shows the Cisco ASR 1000 Series SPA Interface Processor.

Figure 1. Cisco ASR 1000 Series SPAs



Figure 2. Cisco WebEx Node for the Cisco ASR 1000 Series



Figure 3. Cisco ASR 1000 Series SPA Interface Processor



Modular port adapters and programmable interface processors, which are interchangeable across Cisco carrier routing platforms, help enterprise and service provider companies protect network investments and reduce total cost of ownership. The Cisco SPA/SIP portfolio offers a rich set of QoS features for premium service delivery.

Features and Benefits

The Cisco SPA/SIP portfolio offers many advantages, including:

- Industry's most modular, flexible, intelligent interface processors
 - Blends Software as a Services (SaaS) and Enterprise networking to enable Collaboration with Confidence and reduces bandwidth consumption for WebEx web/VoIP/video sessions with the Cisco WebEx node for the Cisco ASR 1000 Series
 - Powerful flexibility provides mix-and-match interface types on the same interface processor for consistent services, independent of access technology.
 - Pioneering programmable interface processors provide flexibility for the service diversity required in next-generation networks.
 - The innovative design provides intelligent delivery of services without compromising on performance.
- Increased speed to service revenue
 - The programmable Cisco architecture extended to 20 Gigabit Ethernet dramatically improves customer density, increasing potential revenue per platform.
 - Interface breadth (copper, Channelized, Packet over SONET/SDH [PoS], ATM, and Ethernet) on a modular interface processor allows service providers to more quickly roll out new services, helping ensure that all customers large and small receive consistent, secure, and guaranteed services.
 - High-density Small Form-Factor Pluggable (SFP) interfaces are featured for high-port-count applications with reach flexibility. Future optical technology improvements can be adopted using existing SPAs.

Product Specifications

For product specifications for all Cisco SPAs, please go to the following Website:

http://www.cisco.com/en/US/products/ps6267/prod_module_series_home.html.

Table 1. Ordering Information

Product Name	Product Number
ASR1000 SPA Interface Processor	
Cisco ASR1000 Series SPA Interface Processor 10G	ASR-1000-SIP10
WebEx Node SPA	
WebEx node SPA for ASR 1000	SPA-WMA-K9
ATM SPA	
Cisco 1-Port Clear Channel OC3 ATM Shared Port Adapter	SPA-1XOC3-ATM-V2
Cisco 3-Port Clear Channel OC3 ATM Shared Port Adapter	SPA-3XOC3-ATM-V2
Cisco 1-Port Clear Channel OC-12/STM-4 ATM Shared Port Adapter	SPA-1XOC12-ATM-V2
Serial and Channelized SPA	
Cisco 8-Port Channelized T1/E1 Shared Port Adapter	SPA-8XCHT1/E1
Cisco 4-Port Channelized T3 (DS0) Shared Port Adapter	SPA-4XCT3/DS0
Cisco 2-Port Channelized T3 (DS0) Shared Port Adapter	SPA-2XCT3/DS0
Cisco 1-port Channelized STM-1/OC-3c to DS0 Shared Port Adapter	SPA-1XCHSTM1/OC3
Cisco 2-Port Clear Channel T3/E3 Shared Port Adapter	SPA-2XT3/E3
Cisco 4-Port Clear Channel T3/E3 Shared Port Adapter	SPA-4XT3/E3
Cisco 4-Port Serial Interface Shared Port Adapter	SPA-4XT-Serial
Ethernet SPA	
Cisco 4-Port 10BASE-T/100BASE Fast Ethernet Shared Port Adapter, Version 2	SPA-4X1FE-TX-V2

Cisco 8-Port 10BASE-T/100BASE Fast Ethernet Shared Port Adapter, Version 2	SPA-8X1FE-TX-V2
Cisco 2-Port Gigabit Ethernet Shared Port Adapter, Version 2	SPA-2X1GE-V2
Cisco 5-Port Gigabit Ethernet Shared Port Adapter, Version 2	SPA-5X1GE-V2
Cisco 8-Port Gigabit Ethernet Shared Port Adapter, Version 2	SPA-8X1GE-V2
Cisco 10-Port Gigabit Ethernet Shared Port Adapter, Version 2	SPA-10X1GE-V2
Cisco 1-Port 10 Gigabit Ethernet Shared Port Adapter, Version 2	SPA-1X10GE-L-V2
Packet Over Sonet (POS)	
Cisco 2-Port OC3c/STM-1c POS Shared Port Adapter	SPA-2XOC3-POS
Cisco 4-Port OC3c/STM-1c POS Shared Port Adapter	SPA-4XOC3-POS
Cisco 8-port OC3/STM4 POS Shared Port Adapter	SPA-8XOC3-POS
Cisco 1-Port OC12c/STM-4c POS Shared Port Adapter	SPA-1XOC12-POS
Cisco 2-port OC12/STM4 POS Shared Port Adapter	SPA-2XOC12-POS
Cisco 4-port OC12/STM4 POS Shared Port Adapter	SPA-4XOC12-POS
Cisco 8-port OC12/STM4 POS SPA Shared Port Adapter	SPA-8XOC12-POS
Cisco 1-port OC48/STM16 POS/RPR Shared Port Adapter	SPA-1XOC48-POS/RPR
Cisco 2-port OC48/STM16 POS/RPR Shared Port Adapter	SPA-2XOC48POS/RPR
Cisco 4-port OC48/STM16 POS/RPR Shared Port Adapter	SPA-4XOC48POS/RPR
Cisco 1-port OC192/STM64 POS/RPR XFP Optics Shared Port Adapter	SPA-OC192POS-XFP

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For More Information

For more information about the Cisco shared port adapters, visit http://www.cisco.com/en/US/products/ps6267/prod_module_series_home.html or contact your local Cisco account representative.



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