

## Cisco 7200VXR Series Port Adapter Jacket Card

### Product Overview

Increasingly, business applications and services affect aggregation requirements and router-integrated services across the WAN and metropolitan-area network (MAN)—in both branch offices and headquarters. Consequently, to continue to meet the increasing needs of flexibility, capacity, and performance and maintain exceptional value and flexibility, Cisco introduces the Cisco® 7200VXR Series Port Adapter Jacket Card (Figure 1). The jacket card addresses the demand for additional slot density and flexibility by enabling the I/O slot to hold a single port adapter for additional capacity on systems with the Cisco 7200VXR Series NPE-G1 Network Processing Engine and later. Benefits of the jacket card include the following (refer to Table 1 for details):

- Provides one additional slot for single port adapter (selected port adapter)
- Allows a high-bandwidth port adapter—such as the hardware-based Cisco VPN Acceleration Module 2+ with Advanced Encryption Standard (AES) wide key cryptography card (part number SA-VAM2+) and the Cisco 2-Port Packet over SONET/SDH (POS) OC-3c/STM-1 Port Adapter (PA-POS-2OC3)—to be moved onto a dedicated Peripheral Component Interconnect (PCI) bus that the Cisco 7200VXR Series NPE-G1 or NPE-G2 provides
- Reduces PCI contention among other port adapters
- Provides a cost-effective way to increase the slot density in parallel to the increased switching capacity of the newest engine of the platform—the Cisco NPE-G2

**Figure 1.** Cisco 7200VXR Series Port Adapter Jacket Card



**Table 1.** Features and Benefits Overview

Features	Benefits
<b>Additional port and slot density</b>	Increases the slot capacity of the chassis by 1 slot for single additional port adapter
<b>Dedicated PCI bus</b>	Allows a high-bandwidth port adapter to be moved into the I/O slot, saving up to 3 port adapter slots
<b>Port adapter support</b>	Supports high bandwidth point port and service adapters: Cisco VPN Acceleration Module 2 (SA-VAM2), Cisco VPN Acceleration Module 2+ with AES wide key cryptography card (SA-VAM2+), Cisco 1- and 2-Port Packet/SONET <b>[[should that be POS as before?]]</b> OC-3c/STM-1 Port Adapters (PA-POS-1OC3 and PA-POS-2OC3, respectively), Cisco 2-Port T3 Serial Port Adapter Enhanced (PA-MC-2T3+), Cisco 8-Port Multichannel Port Adapter (PA-MC-8TE1+), Cisco 2-Port TX and FX Fast Ethernet Port Adapters (PA-2FE-TX and PA-2FE-FX, respectively), Cisco 1- and 2-Port Enhanced Multichannel T3 Port Adapters (PA-MC-T3-EC and PA-MC-2T3-EC, respectively), Cisco 1- and 2-Port Enhanced Clear Channel T3 and E3 Port Adapters (PA-T3/E3-EC and PA-2T3/E3-EC, respectively), Cisco 1-Port Multichannel STM-1 Multi- and Single-Mode Port Adapters (PA-MC-STM-1MM and PA-MC-STM-1SMI, respectively), and Cisco 7000 PA-A6 Series Enhanced ATM Port Adapters (PA-A3 and PA-A6).
<b>LED indicators</b>	Indicates (through “Pwr” LED) whether the jacket card is powered up; “Enabled” LED indicates whether it is discovered by the system and indicates its readiness
<b>Online insertion and removal (OIR)</b>	Allows the port adapter to be removed or inserted into the jacket card without rebooting the router; the jacket card, on the other hand, should not be removed unless the system is powered down

## Product Highlights

### Supported Network Processing Engines

The Cisco 7200VXR Series Port Adapter Jacket Card is supported with the following network processing engines:

- Cisco 7200VXR Series NPE-G1
- Cisco 7200VXR Series NPE-G2

**Note:** An I/O controller card is required on systems with the Cisco NPE-400 and earlier. Therefore, the I/O controller slot is occupied and the port adapter jacket card cannot be inserted because it comes in I/O slot format.

### Supported Port Adapters

The Cisco 7200VXR Series Port Adapter Jacket Card supports the following port adapters:

- Cisco VPN Acceleration Module 2 (SA-VAM2): Supported only in combination with Cisco 7200VXR Series NPE-G1
- Cisco VPN Acceleration Module 2+ with AES wide key cryptography card (SA-VAM2+)
- Cisco 1-Port POS OC-3c/STM-1 Port Adapter (PA-POS-1OC3)
- Cisco 2-Port POS OC-3c/STM-1 Port Adapter (PA-POS-2OC3)
- Cisco 8-Port Enhanced Multichannel Port Adapter (PA-MC-8TE1+)
- Cisco 2-Port T3 Serial Port Adapter Enhanced (PA-MC-2T3+)
- Cisco 2-Port Fast Ethernet TX Port Adapter (PA-2FE-TX)
- Cisco 2-Port Fast Ethernet FX Port Adapter (PA-2FE-FX)
- Cisco 1-Port Enhanced Multichannel T3 Port Adapter (PA-MC-T3-EC)
- Cisco 2-Port Enhanced Multichannel T3 Port Adapter (PA-MC-2T3-EC)
- Cisco 1-Port Enhanced Clear Channel T3/E3 Port Adapter (PA-T3/E3-EC)
- Cisco 2-Port Enhanced Clear Channel T3/E3 Port Adapter (PA-2T3/E3-EC)
- Cisco 1-Port Multichannel STM-1 Multi- and Single-Mode Port Adapters (PA-MC-STM-1MM and PA-MC-STM-1SML, respectively)
- Cisco 1-Port ATM Port Adapters (PA-A3-T3, PA-A3-E3, PA-A3-OC3MM, PA-A3-OC3SML, PA-A3-OC3SML, PA-A6-T3, PA-A6-E3, PA-A6-OC3MM, PA-A6-OC3SML, and PA-A6-OC3SML)

**Note:** The Cisco Mix-Enabled T1/E1 Port Adapters for the Cisco 7200VXR Series Routers are not compatible with the Port Adapter Jacket Card.

### Software

The Cisco 7200VXR Series Port Adapter Jacket Card is supported in the following Cisco IOS<sup>®</sup> Software Releases at the time of first customer shipment:

- For Cisco 7200VXR Series NPE-G1:
  - 12.4(7)
  - 12.4(6)T1
  - 12.2(28)SB

- For Cisco 7200VXR Series NPE-G2:
  - 12.4(4)XD
  - 12.2(31)SB8
- For ATM port adapter on both Cisco 7200VXR Series NPE-G1 and NPE-G2:
  - 12.4(15)T1
  - 12.2(31)SB8
- For the following port adapter on both Cisco 7200VXR Series NPE-G1 and NPE-G2:
  - 12.4(15)T1
  - PA-POS-1OC3, PA-MC-8TE1+, PA-2FE-TX, PA-2FE-FX, PA-MC-T3-EC, PA-MC-2T3-EC, PA-T3/E3-EC and PA-2T3/E3-EC

## Product Specifications

Table 2 gives product specifications.

**Table 2.** Environmental Conditions and Physical Specifications

Feature	Description
<b>Environmental Conditions</b>	
Storage temperature	38 to 150°F (–40 to 70°C)
Operating temperature, nominal	41 to 104°F (5 to 40°C)
Storage relative humidity	5 to 95 percent, noncondensing
Operating relative humidity, nominal	5 to 85 percent, noncondensing
Operating relative humidity, short-term	5 to 90 percent, noncondensing
Operating altitude	–60 to 2000 meters <b>[[feet?]]</b>
<b>Physical Specifications</b>	
Weight	3.8 lb <b>[[pls give metrics for all these]]</b>
Height	1.4 in.
Width	13.5 in.
Depth	5.8 in.

## Product Regulatory Approvals and Compliance

### Product Regulatory Approvals

- IEC 60950-1:2001
- UL 60950-1:2003
- CAN/CSA-C22.2 NO. 60950-1-03
- EN 60950-1:2001
- AS/NZS 60950:2000

### Product Regulatory Compliance

- FCC Part 15 (CFR 47) Class A
- EN55022 Class A
- CISPR22 Class A
- AS/NZS CISPR Class A
- VCCI Class A

- EN55024
- EN50082-1
- EN61000-6-1
- EN61000-3-2
- EN61000-3-3
- EN300386

## Ordering Information

To place an order, visit the Cisco Ordering Home Page. Refer to Table 3 for product part numbers.

**Table 3.** Product Ordering Details

Product Number	Product Description
<b>C7200-JC-PA</b>	Cisco 7200VXR Series Port Adapter Jacket Card
<b>C7200-JC-PA=</b>	Cisco 7200VXR Series Port Adapter Jacket Card, spare

## Service and Support

Cisco offers a wide range of service and support options for our customers. More information about Cisco service and support programs and benefits is available at

[http://www.cisco.com/public/Support\\_root.shtml](http://www.cisco.com/public/Support_root.shtml).

### For More Information

For more information about the new Cisco Port Adapter Jacket Card, visit <http://www.cisco.com/en/US/products/hw/routers/ps341/index.html> or contact your local Cisco account representative.



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