

DATA SHEET

## CISCO 7304 SERIES ROUTER PORT ADAPTER CARRIER CARD

The Cisco® 7304 Router, part of the industry-leading Cisco 7000 Series, is optimized to deliver flexible, high-performance IP and Multiprotocol Label Switching (MPLS) services in applications such as high-end customer premises equipment (CPE), Internet gateway routers, WAN aggregations, and the service provider edge. Coupled with innovative adaptive network processing, a compact, modular form factor, and a wide range of interfaces, the Cisco 7304 Router is ideal for intelligent, multigigabit applications. Designed for high network availability and multiprotocol support, the Cisco 7304 increases its flexibility by adding support for the broad set of existing Cisco 7000 Series port adapters with the new Cisco 7304 Port Adapter Carrier Card.

The Cisco 7304 Port Adapter Carrier Card (Figure 1) combines the industry-proven Cisco 7200 and 7500 series port adapters with the performance and scalability of the Cisco 7304 Router.

Each Cisco 7304 Port Adapter Carrier Card can accept one Cisco 7200 and 7500 series WAN/LAN port adapters and with an innovative architecture adapts the port adapter so that it integrates with the Cisco 7304 advanced processing architecture. The flexible media and technology support provides a wide array of connectivity options to enable delivery of next-generation applications while providing an easy migration path for existing networks. The Cisco 7304 Port Adapter Carrier Card offers:

- Increased flexibility through a wider array of interfaces for the Cisco 7304 Router
- Flexibility for customers using Cisco 7200 Series routers to redeploy the same interfaces in the higher performance, redundant-enabled Cisco 7304 Router
- Investment protection for Cisco 7200 and 7500 series customers' interfaces

**Figure 1**

Cisco 7304 Port Adapter Carrier Card



**Table 1.** Features and Benefits of Cisco 7304 Port Adapter Carrier Card

Features	Benefits
<b>Performance</b>	Provides a pass-through interface to the Cisco 7304 backplane to take maximum advantage of the port adapter's performance
<b>Interface support</b>	Provides a wide array of interface options with support for Cisco 7200 and 7500 series port adapters
<b>Investment protection</b>	Allows customers to reuse their Cisco 7200 and 7500 series port adapters
<b>Online insertion and removal (OIR)</b>	Allows for a combined unit of Cisco 7304 Port Adapter Carrier Card along with a Cisco 7200 and 7500 series port adapter to be inserted into the Cisco 7304 without rebooting the router
<b>Modularity</b>	Enables multiple Cisco 7200 and 7500 series port adapters to be used at the same time along with native Cisco 7304 line cards

## PORT ADAPTER SUPPORT

The Cisco 7200 and 7500 series routers have a rich tradition with PCI port adapters. Over the years there have been numerous port adapters developed and they have become renowned throughout the industry. The Cisco 7304 extends this heritage with the Cisco 7304 Port Adapter Carrier Card. Below are the currently supported Cisco 7200 and 7500 series port adapters.

Supported Cisco 7200/7500 Series Port Adapters:

- PA-4E
- PA-8E
- PA-4E1G-75
- PA-4E1G-120
- PA-4T+
- PA-8T-232
- PA-8T-V35
- PA-8T-X21
- PA-A3-8E1IMA
- PA-A3-8T1IMA
- PA-A3-E3
- PA-A3-OC3-MM
- PA-A3-OC3-SMI
- PA-A3-OC3-SML
- PA-A3-T3
- PA-E3
- PA-2E3
- PA-FE-FX\*
- PA-2FE-FX=
- PA-FE-TX\*
- PA-2FE-TX

- PA-GE
- PA-H
- PA-2H
- PA-MC-2E1/120
- PA-MC-8E1/120\*
- PA-MC-2T1
- PA-MC-4T1
- PA-MC-8T1\*
- PA-MC-8TE1+
- PA-MC-E3
- PA-MC-STM-1MM
- PA-MC-STM-1SMI
- PA-MC-T3
- PA-MC-2T3+
- PA-MC-8DSX1
- PA-POS-OC3-MM
- PA-POS-OC3-SMI
- PA-POS-OC3-SML
- PA-POS-2OC3
- PA-T3\*
- PA-2T3\*
- PA-T3+
- PA-2T3+

**\*These PA's have been EOL'd.**

**Note:** The PA-MC-8TE1+ does not support ISDN PRI when installed in the PA-CC. The Cisco 7304 does not support ISDN.

## **PRODUCT SPECIFICATIONS**

### **Chassis**

The Cisco 7304 Port Adapter Carrier Card is supported on the Cisco 7304 chassis. Up to four Cisco 7304 Port Adapter Carrier Cards may be installed into one Cisco 7304 Router chassis.

### **Port Adapters**

One single-wide Cisco 7200 Series or 7500 Series Port Adapter can be installed in one Cisco 7304 Port Adapter Carrier Card.

## Processor Engine Support

The Cisco 7304 Port Adapter Carrier Card is supported on:

- Cisco 7300 NSE-100
- Cisco 7304 NPE-G100

## Software Support

The Cisco 7304 Port Adapter Carrier Card is supported in Cisco IOS® Software Release 12.2(14)SZ and later releases.

## PRODUCT SPECIFICATIONS

### Physical

- Dimensions: The Cisco 7304 Port Adapter Carrier Card occupies one module slot and can be operated only in Cisco 7304 routers
- Weight: 8 lb (3.64 kilograms)

### Environmental

- Storage temperature: –4 to 149°F (–20 to 65°C)
- Operating temperature: 32 to 104°F (0° to 40°C)
- Relative humidity: 10 to 90 percent, noncondensing

### Regulatory Compliance

#### Safety and Electromagnetic Emissions Certification

- CE Marking

#### Safety

- UL60950
- CAN/CSA-C22.2 No. 60950
- EN 60950
- IEC 60950
- TS 001
- AS/NZS 3260

#### EMC

- FCC Part 15 (CFR 47) Class A
- ICES-003 Class A
- EN55022 Class A
- CISPR22 Class A
- AS/NZS 3548 Class A

- VCCI Class A
- CNS13438
- EN55024
- EN300386
- EN50082-1
- EN61000-3-2
- EN61000-3-3

The Cisco 7304 Port Adapter Carrier Card also complies with other requirements. For details, see the relevant declaration of conformity.

## ORDERING

Please visit: [http://www.cisco.com/public/ordering\\_info.shtml](http://www.cisco.com/public/ordering_info.shtml) to place an order. Table 2 provides product numbers.

**Table 2.** Cisco 7304 Port Adapter Carrier Card Ordering Information

Product Number	Product Description
7300-CC-PA	Carrier card for Cisco 7200 Series port adapters
7300-CC-PA=	Spare carrier card for Cisco 7200 Series port adapters

## SERVICE AND SUPPORT

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