

## CISCO 7300 SERIES ROUTER—CISCO 7304 CHASSIS

### Flexible, Modular, Compact Chassis for Edge Routing with Scalable IP/MPLS Service Delivery

#### CISCO 7304 CHASSIS

Cisco® 7300 Series routers are optimized for flexible, scalable, high-performance IP and Multiprotocol Label Switching (MPLS) services at the service provider and enterprise network edge. Providing powerful processing, a broad set of interfaces, and a compact form factor, Cisco 7300 Series routers are ideal for feature-rich, multigigabit network applications.

The Cisco 7304 Router is a midrange, price-performance optimized router with a compact (4-rack-unit [RU]), modular (4-slot) form factor (Figure 1). It delivers high-performance services in IP/MPLS networks and is optimized for the network edge, where the service provider meets the enterprise. Targeted applications include service provider edge and IP edge routing, service provider managed service customer premises equipment (CPE), and enterprise Internet gateway and enterprise WAN aggregation.

**Figure 1.** Cisco 7304 Chassis



The Cisco 7304 provides numerous connectivity options, from DS0 to Gigabit Ethernet and OC-48/STM-16, in an architecture engineered for high availability and multiprotocol support. With built-in Gigabit Ethernet ports and support for Cisco 7200 Series port adapters, the Cisco 7304 is a leading-edge, flexible, feature-rich router for the network edge.

The Cisco 7304 platform offers two processor options: the NPE-G100 general-purpose processor (approximately 1 mpps) optimized for flexible feature support, and the high-performance NSE-100 (approximately 3.5 mpps) that delivers an evolving set of application-specific, hardware-accelerated IP services through Cisco Parallel Express Forwarding (PXF) technology.

The Cisco 7304 is a perfect fit at the edge, where service provider and enterprise networks meet. It provides the option of either the NPE-G100 or the NSE-100 for high-performance routing with a breadth of high-touch IP services, numerous interfaces, and robust, high-availability design.

#### FEATURE SUMMARY

##### Cisco 7304 Chassis Features

- 4-RU (7-in.) compact chassis
- 4-slot modular system
- Network Equipment Building Standards (NEBS) Level 3 compliance

- Redundant route processor (NSE-100 or NPE-G100)
- Redundant power supplies (AC or DC)
- Front-to-back airflow for optimal cooling
- Rack density

**Table 1.** Cisco 7304 Quick-Look Summary

Cisco 7304 Chassis	Cisco 7304 Rack Density
4 Slots for Line Cards; 2 Gigabit Ethernet Ports per NSE-100 and 3 Ethernet/Fast Ethernet/Gigabit Ethernet Ports per NPE-G100	11 chassis per rack

## ORDERING INFORMATION

To order, visit: [http://www.cisco.com/public/ordering\\_info.shtml](http://www.cisco.com/public/ordering_info.shtml)

Table 2 lists part numbers for ordering purposes. Please note that “=” denotes a spare order (for example, 7300-PWR-DC= is the spare part number for the DC power supply).

**Table 2.** Cisco 7304 Chassis Ordering Information

Part Number	Description
CISCO7304	Cisco 7304, 4-slot chassis, NSE-100, 1 AC or DC power supply, 512-MB default memory
CISCO7304-G100	Cisco 7304, 4-slot chassis, NPE-G100, 1 AC or DC power supply, 1-GB default memory
7300-PWR-DC	Cisco 7304 DC power supply option
7300-PWR-DC=	Cisco 7304 DC power supply option (spare)
7300-PWR-AC	Cisco 7304 AC power supply option
7300-PWR-AC=	Cisco 7304 AC power supply option (spare)
7300-PWR/2-DC	Cisco 7304 redundant DC power supply option
7300-PWR/2-AC	Cisco 7304 redundant AC power supply option
7300-FANMODULE	Cisco 7304 fan module
7300-FANMODULE=	Cisco 7304 fan module (spare)
7300-4RU/RCKBRKT=	Cisco 7304 chassis rack-mount bracket (spare)
7300-CNTR-SPTUM=	Cisco 7304 center septum (spare)

**Table 3.** Cisco 7304 Chassis Ordering Information

Part Number	Description
7300-HALFSLOTBLNK	Cisco 7304 half-slot blank line card
7300-HALFSLOTBLNK=	Cisco 7304 half-slot blank line card (spare)

## TECHNICAL SPECIFICATIONS

### Physical Specifications

- 4-RU (7-in.) chassis 4 line-card slots per chassis
- Dimensions (H x W x D): 7 x 17.2 x 20.5 in.
- Weight: 28 lb (without power supply; power supplies 8 lb each)

### Power Requirements

#### AC Input Power Supply/Chassis

AC input voltage: 100 to 240 VAC

#### AC Input Current

8A at  $V_{in} = 100$  VAC and maximum load (540W)

4A at  $V_{in} = 200$  VAC and maximum load (540W)

#### DC Input Power Supply/Chassis

DC input voltage: -48 to -60 VDC

#### DC Input Current

16A at  $V_{in} = -48$  VDC and maximum load (540W)

Mean time between failure (MTBF): 5.5 years for system configuration

### Environmental Conditions

#### Operating Condition

Temperature: 32 to 104°F (0 to 40°C)

Altitude: 6500ft (2000 m)

Humidity: 10 to 85 percent noncondensing

#### Storage Condition

Temperature: -4 to 149°F (-20 to 65°C)

Humidity: 5 to 95 percent noncondensing

### Regulatory Compliance

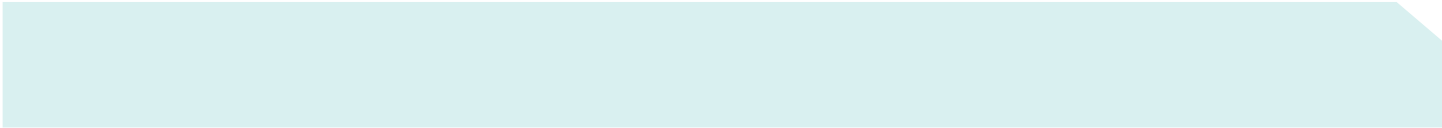
CE Marking

### Safety

UL 60950

CAN/CSA C22.2 No. 950-00

EN 60825-1 Laser Safety (Class 1) 21CFR 1040 Laser Safety



EN60950

IEC 60950

TS 001

AS/NZS 60950

**EMC**

FCC Part 15 (CFR 47) Class A

VCCI Class A

EN55022 Class A

CISPR 22 Class A

AS/NZS 3548 Class A

EN61000-3-2

EN61000-3-3

EN55024

EN50082-1

ETS300386

**NEBS Level 3 Compliance per Telecordia SR-3580**

GR-1089-Core—Electromagnetic Compatibility and Electrical Safety, GR-63-CORE—NEBS: Physical Protection

**ETSI Compliance**

ETS-300386-2 Switching Equipment

ETSI Environmental

ETS 300 019 Part 1-1 Class 1.1

ETS 300 019 Part 1-2 Class 2-3

ETS 300 019 Part 1-3 Class 3.1

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