

# Cisco 7300 Internet Router

## Cisco 7304 Chassis

Scalable, Modular, Compact Chassis for Edge Routing with High-Touch IP Service Delivery

### Cisco 7300 Chassis

The Cisco 7300 Series Internet Router is designed for the network edge where high performance IP services are required to enable profitability, service differentiation, and business agility. Utilizing a compact (4 Rack Unit), modular (4 slot) form factor, the Cisco 7300 delivers high-touch IP services at optical speeds necessary for applications in the high-end enterprise and the service provider managed service customer premise equipment (CPE).

High performance services are critical in these implementations, and the Cisco 7300 delivers an evolving set of hardware accelerated IP Services via the Cisco patented Parallel eXpress Forwarding (PXF) IP Services Processor technology. The Cisco 7300 provides a range of optical connectivity from OC-3/STM-1 to Gigabit Ethernet, OC-48 performance, an architecture engineered for high availability, and multi-protocol support. With two Gigabit Ethernet ports built into the system, the Cisco 7300 is the optical evolution of Cisco System's 7x00 series routers.

Figure 1 Cisco 7304 Chassis



The Cisco 7304 is a compact (4RU), modular (4 slot) chassis suited for deployment in a wide variety of areas. Due to its size and modularity, enterprise and service providers will be able to grow their networks incrementally allowing them to avoid large initial capital expenditures and to work within tight budget constraints. With the Cisco 7304 leveraging the NSE-100 for high performance routing with a variety of high-touch IP services, its various interfaces, and robust high availability design, it is a perfect fit at the edge where service provider and enterprise networks meet.

## Quick-Look Feature Summary

### Cisco 7304 Chassis Features

- 4 RU (7") compact chassis
- 4 slot modular system
- NEBS Level 3 compliance
- Redundant Route Processor (NSE-100) capable (enabled through forthcoming software upgrade)
- Redundant power supplies, AC or DC
- Front to back airflow for optimal cooling

### Cisco 7300 System Features

- Centralized PXF—on NSE-100 - for hardware accelerated features (CEF, Turbo ACLs, etc.)
- Up to 3.5 Mpps switching performance for PXF accelerated services
- 16 Gbps total throughput on backplane with 4 Gbps serial point-to-point connections to each slot
- Interface scalability to OC-48
- Multi-protocol & feature support via Cisco IOS

### Rack Density

Table 1 Cisco 7304 Chassis Statistics & Rack Density

Cisco 7304 Chassis Stats.	Cisco 7304 Rack Density
4 slots for line cards & 2 GE ports per NSE-100	11 chassis per rack

### Minimum Software Revision

- 12.1(10)E

## Ordering Information

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

Table 2 Cisco 7304 Chassis Ordering Information

Part Number	Description
CISCO7304	Cisco 7300, 4-slot chassis, 1 AC or DC Power Supply w/IP Software
7300-PWR-DC	Cisco 7300 DC Power Supply Option
7300-PWR-DC=	Cisco 7300 DC Power Supply Option, SPARE
7300-PWR-AC	Cisco 7300 AC Power Supply Option
7300-PWR-AC=	Cisco 7300 AC Power Supply Option, SPARE
7300-PWR/2-DC	Cisco 7300 Redundant DC Power Supply Option
7300-PWR/2-AC	Cisco 7300 Redundant AC Power Supply Option
7300-FANMODULE	Cisco 7300 Fan Module
7300-FANMODULE=	Cisco 7300 Fan Module, SPARE
7300-4RU/RCKBRKT=	Cisco 7304 Chassis Rackmount Bracket, SPARE
7300-CNTR-SPTUM=	Cisco 7300 Center Septum, SPARE
7300-HALFSLOTBLNK	Cisco 7300 Half Slot Blank Line Card
7300-HALFSLBLNK=	Cisco 7300 Half Slot Blank Line Card, SPARE

Please note that "=" denotes a spare order (i.e. 7300-PWR-DC= would be the spare part number for the DC power supply)

## Technical Specifications

### Physical Specifications

- 4 RU (7") chassis
- 4 Line Card slots per chassis
- Dimensions (H x W x D): 7"x17.2"x20.5"
- Weight: 28 lbs (w/o power supply) kg; power supplies 8 lbs each
- Power Requirements:  
For AC input power supply/chassis:
  - AC input voltage: 100 to 240 VAC
  - AC input current:  
8A at Vin = 100 VAC and max load (540 W)  
4A at Vin = 200 VAC and max load (540 W)For DC input power supply/chassis:
  - DC input voltage: -48 to -60 VDC
  - DC input current:  
16A at Vin = -48 VDC and max load (540 W)
- 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: 10,000 ft (3000 m)
  - Humidity: 10 to 85% noncondensingStorage Condition:
  - Temperature: -4° to 149° F (-20° to 65° C)
  - Humidity: 5 to 95% noncondensing

### Regulatory Compliance

#### Safety Compliance

- UL 1950
- CAN/CSA C22.2 No. 950-95
- EN 60825-1 Laser Safety (Class 1)
- 21CFR 1040 Laser Safety
- EN60950
- IEC 60950
- TS 001
- AS/NZS 3260

#### EMC Compliance

- FCC Part 15 (CFR 47) Class A
- VCCI Class A
- EN55022 Class A
- CISPR 22 Class A
- AS/NZS 3548 Class A
- EN55024
- CE Marking
- EN50082-1
- ETS300386

#### NEBS Level 3 Compliance

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

#### ETSI Compliance

- ETS-300386-2 Switching Equipment



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