

Cisco 7600 Series Router

Cisco **7613** Chassis

The Cisco 7613 Router is a high-performance router designed for deployment at the network edge where performance, IP services, and redundancy/fault resiliency are key requirements. Combined with the central route processor and forwarding engine, the 13-slot Cisco 7613 provides 30 Mpps forwarding rates and up to 256 Gbps total throughput. This versatile Cisco 7600 platform scales WAN connectivity from OC-48/STM-16 to DS0 and LAN connectivity from 10-Gigabit Ethernet through 10-Mbps Ethernet. The Cisco 7613 delivers these capabilities while implementing high-touch hardware-accelerated IP services via Cisco's patented parallel express forwarding (PXF) network processor.

The Cisco 7613 delivers 13 slots of optical LAN, WAN, and MAN networking at the network edge, which enables service providers to offer high-value, differentiated services and provides enterprises the ability to deploy the advanced network infrastructure necessary to succeed in demanding high-traffic environments.

The Cisco 7613 incorporates the requirements service providers and high-end enterprises demand in a chassis. Understanding the need to use rack space efficiently, the Cisco 7613 is designed for horizontal line-card configurations with side-to-side airflow and single-side connection management for both interface

and power terminations. Two chassis can be installed per seven-foot rack (33.3"/82.3 cm height, 18RU).

As with all Cisco 7600 Series routers, the Cisco 7613 chassis accommodates a broad selection of line cards supporting numerous applications, including:

- Optical Service Modules: OC-3/STM-1, OC-12/STM-4 and OC-48/STM-16 POS, OC-12/STM-4 ATM, Gigabit Ethernet WAN, Channelized T3 (CT3) and OC12/STM-4
- FlexWAN Module: Supporting Cisco 7200 and 7500 WAN port adapters for DS0 to OC-3
- LAN Ethernet Modules: 10/100 Mbps, Gigabit Ethernet, and 10-Gigabit Ethernet.
- Services Modules: Firewall, Network Analysis, Content Switching, and SSL

Figure 1
Cisco 7613 Chassis





Providing the foundation for a powerful combination of speed and services, the Cisco 7613 Router is an outstanding choice for multiple applications. Whether deployed as a high-speed WAN aggregator, for peering, or for metropolitan Ethernet aggregation and uplinks, the Cisco 7613 meets the requirements for critical network applications.

Feature Summary

Cisco 7613 System Features

- 30 Mpps hardware-based Cisco Express Forwarding (CEF)
- 30 Mpps hardware-based access control lists (ACLs), classification, policing, and marking
- 256-Gbps total throughput.

Cisco 7613 Chassis Features

- 13-slot NEBS-compliant chassis
- 18-RU (33.3-inch/82.3cm) chassis
- Up to 2 chassis per 7-foot rack
- Up to 12 interface slots (with one slot occupied by the forwarding and routing engine)
- 1 + 1 route processor and switch fabric protection capability
- 1 + 1 power supply protection option, AC or DC
- Single-side connection management for both interface and power terminations
- Horizontal line-card configurations
- Side-to-side airflow

Cisco 7613 Technical Specifications

- Minimum route processor requirement—one Supervisor Engine 2 with MFSC-2
- Dimensions
 - Height: 33.3 in. (82.3 cm)
 - Width: 17.2 in. (42.5 cm)
 - Depth: 18.1 in. (44.7 cm)
- Power requirements: 208 to 240 VAC recommended (or –48 to –60 VDC)
- Mean Time Between Failure (MTBF): 7 years for system configuration
- Environmental conditions:
 - Operating temperature: 32 to 104°F (0 to 40°C)
 - Storage temperature: –4 to 149°F (–20 to 65°C)
 - Relative humidity, operating: 10 to 85%, non-condensing
 - Relative humidity, storage: 5 to 95%, non-condensing
 - Operating altitude: –500 to 10,000 ft.
- Minimum software release: Cisco IOS[®] Software Release 12.1(13)E



Table 1 Cisco 7613 Chassis Ordering Information

Part Number	Description
CISCO 7613	Cisco 7613, 13-slot chassis (includes fan module, mounting kit, cable guide) with Cisco Catalyst 6500 Series Supervisor Engine 2 with MSFC-2 (WS-C6K-S2U-MSFC2 with 512 MB DRAM), 64 MB PCMCIA Flash memory, single AC or DC power supply, Cisco IOS Service Provider software, and Inter-domain Routing License (AC bundles include power cord)
7613-AC-BUN	CISCO 7613 chassis bundle, as listed above, 4000W AC power supply (US or International options, 30A circuit required)
7613-DC-BUN-2500W	CISCO 7613 chassis bundle, as listed above, with 2500W DC power supply
Spare Units (denoted by "=")	
CISCO7613=	Cisco 7613 chassis, mounting kit, and cable guide
WS-CAC-4000W-US=	Spare AC power supply for CISCO7609 chassis (requires 30A circuit) US/Japan cord attached
WS-CAC-4000W-INT=	Spare AC power supply for CISCO7609 chassis (requires 30A circuit) International cord attached
WS-CDC-2500W=	Spare DC 2500W Supply
WS-C6513-RACK=	Cisco Catalyst 6513 Rack Mount Kit and Cable Organizer, spare
WS-C6K-13SLOT-FAN	Cisco 7613 fan tray, spare

Regulatory Compliance

- UL 60950
- IEC 60825-1, -2
- IEC 60950
- EN 60950
- EN 60825-1, -2
- CAN/CSA-C22.2 No. 60950-00
- AS/NZS 3260-1993
- 21CFR1040 S
- 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
 - EN55024
 - ETS300 386
 - EN50082-1

- EN61000-3-2
- EN61000-3-3
- Safety and Environmental Standard Compliance
 - GR-63-Core NEBS Level 3
 - GR-1089-Core NEBS Level 3
 - ETSI 300 019 Storage Class 1.1
 - ETSI 300 019 Transportation Class 2.3
 - ETSI 300 019 Stationary Use Class 3.1

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maximizing network availability, or enhancing customer satisfaction and retention, Cisco is committed to the success of its customers.

For More Information

For more information about Cisco service and support programs and benefits, visit:

<http://www.cisco.com/en/US/support/index.html>

For more information about Cisco 7600 Series routers, contact your Cisco account representative or visit:

<http://www.cisco.com/go/7600>

For ordering information, visit:

http://www.cisco.com/public/ordering_info.shtml



Corporate Headquarters
 Cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, CA 95134-1706
 USA
www.cisco.com
 Tel: 408 526-4000
 800 553-NETS (6387)
 Fax: 408 526-4100

European Headquarters
 Cisco Systems International BV
 Haarlerbergpark
 Haarlerbergweg 13-19
 1101 CH Amsterdam
 The Netherlands
www-europe.cisco.com
 Tel: 31 0 20 357 1000
 Fax: 31 0 20 357 1100

Americas Headquarters
 Cisco Systems, Inc.
 170 West Tasman Drive
 San Jose, CA 95134-1706
 USA
www.cisco.com
 Tel: 408 526-7660
 Fax: 408 527-0883

Asia Pacific Headquarters
 Cisco Systems, Inc.
 Capital Tower
 168 Robinson Road
 #22-01 to #29-01
 Singapore 068912
www.cisco.com
 Tel: +65 6317 7777
 Fax: +65 6317 7799

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