

Cisco MCS 7825-H2 Unified CallManager Appliance

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The Cisco® Unified Communications system of voice and IP communications products and applications helps organizations communicate more effectively—thereby helping them streamline business processes, reach the right resource the first time, and increase profitability. The Cisco Unified Communications portfolio is an integral part of the Cisco Business Communications Solution—an integrated solution for organizations of all sizes that also includes network infrastructure, security, and network management products; wireless connectivity; and a lifecycle services approach, along with flexible deployment and outsourced management options, end-user and partner financing packages, and third-party communications applications.

Product Overview

The Cisco MCS 7825-H2 Unified CallManager Appliance is an integral part of a complete, scalable architecture for a new generation of high-quality IP communications solutions that operate on enterprise data networks. A solution that is easy to deploy and highly cost-effective, this powerful platform delivers the high performance and availability that today's enterprise networks demand. The server appliance is preinstalled with an operating system and the Cisco Unified CallManager 5.1 application. It is fully operational upon startup, requiring entry of just a few configuration items such as IP address and domain. The server appliance includes the following features and components:

- Intel dual-core, Pentium D, 2.8- or 3.4-GHz processor with an 800-MHz front side bus (FSB) and 4 MB of Layer 2 cache
- 2 GB of installed PC2-4200 memory, error correction code (ECC), double data rate 2 (DDR2), and synchronous dynamic RAM (SDRAM) standard; 8 GB maximum
- Two integrated 10/100/1000BASE-T Gigabit Ethernet network-interface-card (NIC) ports
- Two 80-GB serial-advanced-technology-attachment (SATA) hard disk drives configured in Redundant Array of Independent Disks (RAID) level 1
- No floppy diskette drive installed
- Quick-deployment third-party rail kit
- 450W autoranging, Power Factor Correction (PFC) power supply
- 1-rack-unit (1RU) (1.75 in./4.5 cm high) form factor
- Integrated Lights Out (ILO) remote management

Product Specifications

Table 1 gives specifications of the Cisco MCS 7825-H2.

Table 1. Specifications of Cisco MCS 7825-H2

Processor at Product Introduction	
Processor (CPU)	Intel Pentium D dual core
Processor internal clock speed	2.8 GHz (or greater)
Level 2 cache	4 MB
Maximum processors	1
Processors installed	1 (with 2 cores)
Basic input/output system (BIOS) type	Flash memory
Memory	
Memory maximum	8 GB
Memory bus clock	533 MHz
Memory technology	PC2-4200 DDR2 SDRAM
Bit-error mitigation	Advanced Error Checking and Correction (advanced error correction code [AECC])
Total RAM slots	4
Memory installed	2 GB (2 x 1 GB)
RAID Controller	
Controller model	HP-integrated SATA RAID controller
Interface	Embedded to planar
Cache	No
Battery-backed write caching	No
RAID levels supported	1
Hard Disk	
Hard disk installed	2 x 80 GB
Hard disk RPM	7200
Hard disk I/O transfer rate	1.5 Gbps
Hard disk average seek time	9 ms
Hard disk interface type	SATA
Network Connectivity	
Ethernet NIC	Dual onboard 10/100/1000
Connector	Two RJ-45 connectors on back of server
10BASE-T cable support	EIA Category 3, 4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 ft (10m)
100BASE-TX cable support	EIA Category 5 UTP (2 pair) up to 328 ft (10m)
1000BASE-T cable support	EIA category 6 UTP (recommended), 5E UTP, or 5 UTP (2 pair) up to 328 ft (10m)
Expansion Options	
PCI-Express x8	1 (full length)
PCI-Express low profile x8	1 (half length)
Note: The Cisco 7825-H2 is not qualified for use with Cisco Unity [®] voice cards for traditional private-branch-exchange (PBX) integrations.	
Interfaces	
Ethernet	2
Serial ports	1
Parallel ports	0
Universal serial bus (USB) 2.0 ports	4 (1 at front, 1 internal, and 2 at back of chassis)
Keyboard port	1 PS/2
Mouse port	1 PS/2

Audio ports	None
External Small Computer System Interface (SCSI) port	None
Security	
<ul style="list-style-type: none"> • Power-on password • Keyboard password • Diskette drive control • Diskette boot control • USB port control • Removable CD-ROM/diskette drive assembly • Administrator's password 	
Power	
Power supply output steady-state power	450W (rated) Note: <ul style="list-style-type: none"> • +3.3V and +5V total output power; 130W maximum • +3.3V,+5V, and +12V total output power; 324W maximum
Autoranging AC input	Yes
PFC	Yes
Input requirements range line voltage	90 to 264 VAC
Nominal line voltage	100 to 120 VAC and 220 to 240 VAC
Rated input current	6A (100 to120 VAC) to 3A (200 to 240 VAC)
Rated input frequency	47 to 63 Hz
Rated input power	<ul style="list-style-type: none"> • @ 115V input; Rated input power = 486W (assume output wattage = 450W) • @ 230V input; Rated input power = 479W (assume output wattage = 450W)
Environmental	
Operating ambient temperature	50 to 95°F (10 to 35° C)
Operating temperature de-rating	1.8°F per 1000 to 1 0,000 ft (1°C per 300 to 3000m)
Operating relative humidity	10 to 90% (noncondensing)
Operating maximum wet bulb temperature	82°F (28°C)
Nonoperating storage temperature	-22 to 140°F (-30 to 60°C)
Nonoperating relative humidity	5 to 95% (noncondensing)
Nonoperating maximum wet bulb temperature	102°F (38.7°C)
BTU rating	1710 BTU/hr (per 255W maximum configuration)
Sound emissions, idle	6.4 bel (operating)
Cooling system	5 fans installed
System Unit	
Form factor	Rack-mount 1RU
Rack-mounting	Included for standard third-party rack
Weight—maximum	27.00 lb (12.27 kg)
Dimensions (H x W x D)	1.70 x 16.78 x 24.0 in. (4.32 x 42.62 x 60.96 cm)

Ordering Information

To order this product, visit the [Cisco Ordering Home Page](#).

You can order the appliance in one of two ways. You can enter CALLMANAGER-5.0 into the Dynamic Configuration Tool on Cisco.com to view a list of Cisco MCS Unified CallManager appliances and their associated licenses. You can also order the components individually using the following product part numbers:

- MCS7825H2-K9-CMA2
- LIC-CM5.0-K9-7825-H2=
- KEY-CCM-ADMIN-K9= (order a minimum quantity of 2)
- DAT-USB-EXT-72= (optional external USB DAT tape drive)
- DAT-USB-RM-72= (optional rack mount USB DAT tape drive)
- DAT-USB-ADPT= (required if DAT-USB-EXT-72= or DAT-USB-RM-72= are used)

Appliance Spares

To order spare appliances, refer to Table 2.

Table 2. Ordering Information for Spare Appliances

Application	Spare Part Number
Cisco Unified CallManager 5.0	MCS7825H2-K9-CMA1

Field-Replaceable Spares

To order spare parts for the servers, refer to Table 3.

Table 3. Ordering Information for Server Spare Parts

Spare Part Number	Description
MEM-7825-H2-1GB=	Spare 1-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-H2 server
HDD-7825-H2-80=	Spare 80-GB SATA hard disk drive, cold-pluggable
DAT-USB-EXT-72=	Spare external USB 36-/72-GB DAT drive
DAT-USB-RM-72=	Spare rack-mount USB 36-/73-GB DAT drive
DAT-USB-ADPT=(required for DAT-USB-EXT-72= or DAT-USB-RM-72=)	PCI-to-USB DAT adapter

Identifying Server CPU Speed

As the Cisco MCS 7825-H2 matures, the processor speeds will be changed as Intel retires slower processors and replaces them with faster processors. Table 4 provides the Cisco manufacturing part number shown on the chassis to help identify the processor speed of any individual server.

Table 4. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel dual-core, Pentium D, 2.8 GHz	74-4492-01	Initial production of server

Service and Support

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Warranty Information

Cisco offers a one-year limited hardware warranty on Cisco media convergence servers. For terms and conditions of this warranty, refer to

http://www.cisco.com/univercd/cc/td/doc/es_inpck/1y1cen_.htm.



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