

Cisco MCS 7825-H3 Unified Communications Manager Appliance

Cisco Unified Communications Solutions unify voice, video, data, and mobile applications on fixed and mobile networks enabling easy collaboration every time from any workspace.

Product Overview

The Cisco MCS 7825-H3 Unified Communications Manager Appliance is an integral part of a complete, scalable architecture for a new generation of high-quality unified 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 Communications Manager application. Cisco Unified Communications Manager is fully operational upon startup, requiring entry of just a few configuration variables such as IP address and domain.

Key Features and Benefits

Performance

The Cisco MCS 7825-H3 is a robust, highly available server platform designed to support today's unified communications applications. It uses a single Intel 3050 2.13-GHz processor.

Serviceability

Serviceable SATA Disk Drives

The Cisco MCS 7825-H3 is configured with two 160-GB Serial Advanced Technology Attachment (SATA) "cold-pluggable" disk drives, which are accessible through openings in the front bezel of the server. If a drive fails, you can schedule server downtime, power down the server, and replace the failed SATA drive by simply removing it (each drive is equipped with a front latch that positively mates the drive to the server) and replacing it with an unconfigured spare drive.

DAT Tape Drive Support

The Cisco MCS 7825-H3 can support a 36/72-GB universal-serial-bus (USB) external Digital Audio Tape (DAT) drive (part number DAT-USB-EXT-72=) or an optional 36/72-GB USB rack-mount DAT drive (part number DAT-USB-RM-72=). This tape drive connects through one of the USB 2.0 ports provided by the Cisco MCS 7825-H3 server.

Product Specifications

Tables 1 and 2 give specifications of the Cisco MCS 7825-H3.

Table 1. Product Specifications

Component	Value
Product part number	MCS7825H3-K9-CMC1
Preload	Cisco Unified Communications Manager 7.0
OS	Included

Processor	Single Intel Dual Core 3050 2.13 GHz
Memory	2-GB (two 1-GB) PC2-5300 error-correcting-code (ECC) double-data-rate 2 (DDR2)
Hard disks	Two 160-GB SATA 2.5-inch cold-swap drives configured using Redundant Array of Independent Disks (RAID) 1
Remote management	HP Integrated Lights Out (iLO) Advanced: Supported but not included

Component	Value
Product part number	MCS7825H3-K9-CMB2
Preload	Cisco Unified Communications Manager 6.1
OS	Included
Processor	Single Intel Dual Core 3050 2.13 GHz
Memory	2-GB (2 x 1 GB) PC2-5300 ECC DDR2
Hard disks	Two 160-GB SATA 2.5-inch cold-swap drives configured using RAID 1
Remote management	HP iLO Advanced: Supported but not included

Component	Value
Product part number	MCS7825H3-K9-CMB1
Preload	Cisco Unified Communications Manager 6.0
OS	Included
Processor	Single Intel Dual Core 3050 2.13 GHz
Memory	2-GB (two 1-GB) PC2-5300 ECC DDR2
Hard disks	Two 160-GB SATA 2.5-inch cold-swap drive configured using RAID 1
Remote management	HP iLO Advanced: Supported but not included

Component	Value
Product part number	MCS7825H3-K9-CMA2
Preload	Cisco Unified Communications Manager 5.1
OS	Included
Processor	Single Intel Dual Core 3050 2.13 GHz
Memory	2-GB (two 1-GB) PC2-5300 ECC DDR2
Hard disks	Two 160-GB SATA 2.5-inch cold-swap drives configured using RAID 1
Remote management	HP iLO Advanced: Supported but not included

Table 2. Detailed Specifications of Cisco MCS 7825-H3

Processor at Product Introduction	
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	667 MHz
Memory technology	PC2-5300 667-MHz DDR2 synchronous dynamic RAM (SDRAM)
Total RAM slots	4
Memory maximum	8 GB

RAID Controller	
Controller model	Integrated Intel 82801 GR Serial ATA Host Controller with RAID 0/1 support
Interface	SATA
Cache	No
Battery-backed write caching	No
RAID levels supported	0 and 1
Hard disk	
Cold-swappable bays	2
Data-transfer rate	150 MB per second
Hard disk average seek time	9 ms
Hard disk interface type	SATA
Network Connectivity	
Ethernet network interface card (NIC)	Dual onboard 10/100/1000
Ethernet connectors	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 (100m)
100BASE-TX cable support	EIA Category 5 UTP (2 pair) up to 328 ft (100m)
1000BASE-T cable support	EIA category 6 UTP (recommended), 5E UTP, or 5 UTP (2 pair) up to 328 ft (100m)
Expansion Options	
8x PCI-Express full height, three-quarter length	1
8x PCI-Express low profile, half length	1
Interface Port Specifications	
System management ports	iLO remote
Serial ports	1
Parallel ports	0
USB 2.0 ports	4 (1 at front, 1 internal, 2 back)
Keyboard ports	1
Mouse ports	1
Audio ports	None
Video Graphics Array (VGA) ports	1
Security	
<ul style="list-style-type: none"> • Power-on password • Keyboard password • USB port control • Option to use a selectable boot sequence to prevent unauthorized installation of software or removal of data from the diskette drive • Administrator's password 	
Power	
Power-supply output power	420W (rated steady-state power)
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 to 120 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 10,000 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
Sound emissions, idle	6.3 bels (operating)
System Unit	
Form factor	Rack-mount 1 rack unit (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 and refer to Tables 3 and 4.

You can order the appliance in one of two ways. You can enter UNIFIED-CM-7.0 or UNIFIED-CM-6.1 or UNIFIED_CM_6.0 or CallManager-5.1 into the Dynamic Configuration Tool on Cisco.com to view a list of Cisco Unified Communications Manager Appliances and their associated licenses.

You can also order the components individually using the following product part numbers:

- MCS7825H3-K9-CMC1 (preloaded with Cisco Unified Communications Manager 7.0)
- MCS7825H3-K9-CMB2 (preloaded with Cisco Unified Communications Manager 6.1)
- MCS7825H3-K9-CMB1 (preloaded with Cisco Unified Communications Manager 6.0)
- MCS7825H3-K9-CMA2 (preloaded with Cisco Unified Communications Manager 5.1)
- LIC-CM7.0-7825=
- LIC-CM6.0-7825=
- LIC-CM5.1-7825=
- 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)
- MOH-USB-AUDIO= (USB music-on-hold adapter)

Appliance Spares

To order spare appliances, refer to Table 3.

Table 3. Ordering Information for Spare Appliances

Application	Spare Part Number
Cisco Unified Communications Manager 7.0	MCS7825H3-K9-CMC1
Cisco Unified Communications Manager 6.1	MCS7825H3-K9-CMB2

Cisco Unified Communications Manager 6.0	MCS7825H3-K9-CMB1
Cisco Unified Communications Manager 5.1	MCS7825H3-K9-CMA2

Field-Replaceable Spares

To order spare parts for the servers, refer to Table 4.

Table 4. Ordering Information for Server Spare Parts

Spare-Part Number	Description
MEM-7825-H3-1GB=	Spare 1-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-H3 server
HDD-7825-H3-160=	Spare 160-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

Warranty Information

Cisco offers a 1-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_inpk/1y1cen_.htm.

Cisco Unified Communications Services

Cisco Unified Communications Services allows you to accelerate cost savings and productivity gains associated with deploying a secure, resilient Cisco Unified Communications solution. Delivered by Cisco and our certified partners, our portfolio of services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks. Our unique lifecycle approach to services enhances your technology experience to accelerate true business advantage.



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