



Data Sheet

Cisco MCS 7825-H2-UC1 Media Convergence Server

PRODUCT OVERVIEW

The Cisco[®] MCS 7825-H2-UC1 Media Convergence Server is a powerful platform for Cisco Unity[®] Connection and is preinstalled with an operating system optimized for the application. The Cisco MCS 7825-H2-UC1 occupies only 1 rack unit (1RU) while providing the features most requested in a server platform at a very economical price point.

- Intel dual-core Pentium D 2.8G-Hz processor, a 800-MHz front side bus (FSB), and 2 MB of Layer 2 cache
- PC2-4200 Double Data Rate 2 (DDR2) RAM
- Two Gigabit Ethernet network interface cards (NICs)
- Two 80-GB serial-advanced-technology-attachment (SATA) hard disk drives configured in Redundant Array of Independent Disks (RAID) 1
- Quick-deployment third-party rail kit
- 450W Power Factor Correction (PFC) power supply
- 1RU (1.75-in.) form factor
- Integrated Lights Out (iLO) remote management

SUPPORTED APPLICATIONS

The Cisco MCS 7825-H2-UC1 supports Cisco Unity Connection.

KEY FEATURES AND BENEFITS

Performance

The Cisco MCS 7825-H2-UC1 is a robust, highly available server platform designed to support today's IP Communications applications. It uses a single Intel dual-core Pentium D 2.8-GHz processor with an 800-MHz FSB.

Serviceability

System Health LEDs

The Cisco MCS 7825-H2-UC1 provides system health LEDs and unit identification lights on the front and back of the server to make pinpointing system problems easier than ever. When an internal component fails, this indication is made on an internal component LED (amber) and on the front panel of the Cisco MCS 7825-H2-UC1. If the item is serviceable by removing the hood, as in the case of a fan failure, the internal health LED illuminates. If no failures have occurred, the system health LED is green. If the failure is critical and has caused the system to shut down, the LED is red.

Redundant ROM

In the Cisco MCS 7825-H2-UC1, the ROM is divided into two logical parts. When the system boots, the primary ROM side is executed and used in server operation. During a ROM flash, the backup side is flashed. When the flash is fully completed, the backup side becomes the primary. If under rare conditions the flash does not complete safely, potentially because of a power interruption, the backup is available to boot the system. In the situation in which both images are valid, the user can select which image to use at boot time.

Serviceable SATA Disk Drives

The Cisco MCS 7825-H2-UC1 is configured with two 80-GB SATA “cold-pluggable” disk drives configured in a RAID 1 mirror set. The server continues to operate if either of the two disk drives fails. The SATA disk drives are accessible to the end user through openings in the front bezel of the server. If a drive fails, the end user 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. After restarting the server, the RAID 1 firmware initiates a remirroring of the new drive to ensure that drive redundancy on the Cisco MCS 7825-H2-UC1 is maintained. The serial-drive technology introduced in the Cisco MCS 7825-H2-UC1 provides Cisco Systems® customers with a highly reliable, high-performance, cost-effective solution.

DAT Tape Drive Support

The Cisco MCS 7825-H2-UC1 can support an optional 36-/72-GB universal-serial-bus (USB) external Digital Audio Tape (DAT) drive (part number DAT-USB-EXT-72=) or an optional universal-serial-bus (USB) rack-mount DAT drive (part number DAT-USB-RM-72=). This tape drive connects through one of the 4 USB 2.0 ports provided by the Cisco MCS-7825-H2-UC1 server.

PRODUCT SPECIFICATIONS

Table 1 gives specifications of the Cisco MCS 7825-H2-UC1.

Table 1. Product Specifications

Processor at Product Introduction	
Processor (CPU)	Intel Pentium D dual core
Processor internal clock speed	2.8 GHz (or greater)
Level 2 cache	2 MB
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash memory
Memory	
Memory maximum	8 GB
Memory technology	PC2-4200 DDR2 synchronous dynamic RAM (SDRAM)
Bit-error mitigation	Error correction code (ECC)
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
RAID levels supported	1
Hard Disk	
Hard disk installed	2 x 80 GB
Hard disk route processor module (RPM)	7200
Hard disk interface type	SATA, 1.5 GBps

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)
Interfaces	
Serial ports	1 RS-232D
Parallel ports	0
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 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	90–264 VAC
Nominal line voltage	100–120 VAC; 220 to 240 VAC
Rated input current	6A (100–120 VAC) to 3A (200–240 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 place an order, visit the [Cisco Ordering Home Page](#).

Table 2 gives ordering information for specific server product IDs.

Table 2. Ordering Information

Product Name	Part Number
Cisco Unity Connection	UNITYCN-BUNDLE

SERVER SPARES

To order spare servers, reference Table 3.

Table 3. Ordering Information for Spare Servers

Application	Spare Part Number
Cisco Unity Connection	MCS-7825-H2-UC1

FIELD-REPLACEABLE SPARES

To order spare parts for the servers, reference Table 4.

Table 4. 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

IDENTIFYING SERVER CPU SPEED

As the Cisco MCS 7825-H2-UC1 matures, the processor speeds will be changed as Intel retires slower processors and replaces them with faster processors. Table 5 provides the Cisco manufacturing part number shown on the chassis to help identify the processor speed of any individual server.

Table 5. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel dual-core Pentium D 2.8-GHz	74-4520-01	Initial production of server

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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_inpk/1y1cen.htm.

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