



DATA SHEET

CISCO MEDIA CONVERGENCE SERVER 7825-H1

THIS PRODUCT IS NO LONGER BEING SOLD AND MIGHT NOT BE SUPPORTED. READ THE END-OF-LIFE NOTICE TO LEARN ABOUT POTENTIAL REPLACEMENT PRODUCTS AND INFORMATION ABOUT PRODUCT SUPPORT.

PRODUCT OVERVIEW

The Cisco® Media Convergence Server 7825-H1 (MCS 7825-H1) is a powerful platform for the Cisco IP Communications applications. The Cisco MCS 7825-H1 occupies only 1 rack unit (RU) while providing the features most requested in a server platform at a very economical price point.

- Intel Pentium 4 3.4GHz processor, a 800MHz front side bus (FSB), and 1MB of Layer 2 cache
- PC3200 double-data-rate-1 (DDR1) 400MHz RAM
- Two gigabit network interface cards (NICs)
- Two 80GB serial advanced technology attachment (ATA) hard-disk drives configured in Redundant Array of Independent Disks (RAID) 1
- Quick-deployment third-party rail kit
- 350W power-factor-correction (PFC) power supply
- 1RU (1.75-in.) form factor
- Integrated Lights Out (ILO) remote management

SUPPORTED APPLICATIONS

The Cisco MCS 7825-H1 supports the following Cisco applications:

- Cisco CallManager—Up to 1000 IP phones per server and 4000 IP phones per cluster
- Cisco Conference Connection—Up to 60 conference ports
- Cisco Emergency Responder—Up to 12,000 IP phones
- Cisco Intelligent Contact Management (ICM) Enterprise
- Cisco ICM Hosted
- Cisco IP Contact Center (IPCC) Enterprise
- Cisco IPCC Hosted
- Cisco IPCC Express (Integrated Contact Distribution [ICD])
- Cisco IP Interactive Voice Response (IP IVR)
- Cisco IPICS
- Cisco Personal Assistant—Up to 2500 users per server
- Cisco Queue Manager
- Cisco Unity Unified Messaging—Up to 24 ports and 1000 mailboxes

KEY FEATURES AND BENEFITS

Performance

The Cisco MCS 7825-H1 is a robust, highly available server platform designed to support today's IP Communications applications. It uses a single Intel Pentium 4 3.4GHz processor with an 800MHz FSB.

Serviceability

System-Health LEDs

The Cisco MCS 7825-H1 provides system-health LEDs and unit-identification lights on the front and back of the server to make pinpointing system issues 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-H1. 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-H1, 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 where both images are valid, the user can select which image to use at boot time.

Serviceable SATA Disk Drives

The Cisco MCS 7825-H1 is configured with two 80GB serial advanced technology attachment (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 un-configured spare drive. After restarting the server, the RAID 1 firmware initiates a re-mirroring of the new drive to ensure that drive redundancy on the Cisco MCS 7825-H1 is maintained. The serial-drive technology introduced in the Cisco MCS 7825-H1 provides Cisco Systems® customers with a highly reliable, high-performance, cost-effective solution.

DAT Tape Drive Support

The Cisco MCS 7825-H1 can support an optional 20 or 40GB external digital-audio-tape (DAT) drive. This tape drive connects through a Small Computer System Interface (SCSI) cable to an external SCSI port. The external DAT drive is orderable (part number MCS-EXT-DAT) and a PCI-based SCSI card is orderable (part number MCS-EXT-SCSI) to provide the external SCSI port. DAT support is only provided for Unity applications.

PRODUCT SPECIFICATIONS

Table 1 gives specifications of the Cisco MCS 7825-H1.

Table 1. Product Specifications of Cisco MCS 7825-H1

Features	Descriptions
Processor at Product Introduction	
Processor (CPU)	Prescott Pentium 4
Processor internal clock speed	3.4GHz (or greater)
Level 2 cache	1MB
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash memory
Memory	
Memory maximum	4GB
Memory bus clock	400MHz
Memory technology	PC3200 DDR synchronous dynamic RAM (SDRAM)
Bit-error mitigation	Error Checking and Correction (ECC)
Total RAM slots	4
Memory installed	<ul style="list-style-type: none">• 1GB (2 x 512) for ECS1 versions• 2GB (2x 1GB) for CC1 and IPC1 versions
RAID Controller	
Controller model	HP-integrated SATA RAID controller
Interface	Embedded to planar
Cache	64MB
Battery-backed write cache	Yes—128MB
RAID levels supported	1
Hard Disk	
Hard disk installed	2 x 80GB
Hard-disk 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 Categories 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), Category 5E UTP, 5 UTP (2 pair) up to 328 ft (10m)
Expansion Options	
PCI-X non-hot plug 133MHz, 64-bit slots	1 (full length)
PCI-X non-hot plug 100MHz, 64-bit slots	1 (half length)

Note: The Cisco 7825-H1 is not qualified for use with Cisco Unity voice cards for traditional PBX integration

Features	Benefits
Interfaces	
Serial ports	1 RS-232D
Parallel ports	0
USB 2.0 ports	3 (1 at front 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 • Disk-boot control • Administrator's password • Removable DVD-ROM and disk-drive assembly 	
Maximum input power	350W
Auto-ranging AC input	Yes
PFC	Yes
Input frequency range	47-63Hz
Operation input voltage ranges	<ul style="list-style-type: none"> • 90-132 VAC minimum • 18-264 VAC maximum
Input current	<ul style="list-style-type: none"> • 3.3A (110 VAC) • 1.7A (220 VAC)
Environmental	
Air temperature—Server on	50 to 95°F (10 to 35°C)
Air temperature—Server off	-4 to 140°F (-20 to 60°C)
Humidity—Server on	10 to 90% (non-condensing)
Humidity—Server off	10 to 95%
BTU rating	870 BTU/hr (per 255W maximum configuration)
Sound emissions, idle	6.2 BELS (operating)
Cooling system	5 fans installed
Dimensions	
Form factor	Rack-mount 1RU
Rack-mounting	Included for standard third-party rack
Weight Maximum	24.58 lb (11.15 kg)
Height	1.70 in. (4.32 cm)
Width	16.78 in. (42.62 cm)
Depth	24.0 in. (60.96 cm)

ORDERING INFORMATION

To place an order, visit the [Cisco Ordering Home Page](#).

Table 2 gives ordering information for the Cisco Unity Unified Messaging system.

Table 2. Ordering Information for Cisco Unity Unified Messaging

Product Name	Part Number
Cisco CallManager 3.3	CALLMANAGER-3.3
Cisco CallManager 4.0	CALLMANAGER-4.0
Cisco CallManager 4.1	CALLMANAGER-4.1
Cisco Conference Connection	CCC-1.2
Cisco Emergency Responder	CER-1.2
Cisco ICM Enterprise	ICM-BUNDLE
Cisco ICM Hosted	HOSTED-BUNDLE
Cisco IPCC Enterprise	IPCE-BUNDLE
Cisco IPCC Hosted	HOSTED-BUNDLE
Cisco IPCC Express	PCX-3.Y-STANDARD, PCX-3.Y-ENHANCED, PCX-3.Y-PREMIUM
Cisco IP IVR	IPIVR-3.5=
Cisco IPICS Server Bundle for Branch Offices	CIS-7825-H1-K9
Cisco Personal Assistant	PASR-BUNDLE
Cisco Queue Manager	IPQM-3.5=
Cisco Unity Unified Messaging System	UNITY-BUNDLE

SERVER SPARES

To order spare servers reference the table below.

Table 3. Ordering Information for Spare Servers by Application

Application	Spare Part Number
Cisco CallManager	MCS-7825-H1-IPC1
Cisco Conference Connection	MCS-7825-H1-IPC1
Cisco Emergency Responder	MCS-7825-H1-IPC1
Cisco ICM Enterprise	MCS-7825-H1-CC1
Cisco ICM Hosted	MCS-7825-H1-CC1
Cisco IPCC Enterprise	MCS-7825-H1-CC1
Cisco IPCC Hosted	MCS-7825-H1-CC1
Cisco IPCC Express	MCS-7825-H1-CC1
Cisco IP IVR	MCS-7825-H1-CC1
Cisco IPICS	MCS-7825-H1-S31
Cisco MeetingPlace	MCS-7825-H1-IPC1
Cisco Queue Manager	MCS-7825-H1-CC1
Cisco Unity Unified Messaging System	MCS-7825-H1-ECS1

FIELD-REPLACEABLE SPARES

To order spare parts for the servers reference the table below.

Table 4. Ordering Information for Server Spare Parts

Spare Part Number	Description
MEM-7825-H1-512=	Spare 512MB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-H1 server
MEM-7825-H1-1GB=	Spare 1GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-H1 server
HDD-7825-H1-80=	Spare 80GB SATA hard-disk drive, cold-pluggable

IDENTIFYING SERVER CPU SPEED

As the Cisco MCS 7825-H1 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 that is shown on the chassis to help identify any processor speed of any individual server.

Table 5. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Pentium 4 3.4GHz	74-3189-03	Initial production of server: <ul style="list-style-type: none">• MCS-7825-H1-ECS1
Intel Pentium 4 3.4 GHz	74-3908-01	Initial production of server: <ul style="list-style-type: none">• MCS-7825-H1-CC1• MCS-7825-H1-IPC1

SERVICE AND SUPPORT

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you protect your network investment, optimize network operations, and prepare the network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, refer to [Cisco Technical Support Services](#) or [Cisco Advanced Services](#).

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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