Data Sheet

Cisco MCS 7825-H1 Unified CallManager Appliance

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The Cisco® Unified Communications system of voice and IP communications products and applications enables organizations to communicate more effectively—enabling them to streamline business processes, reach the right resource the first time and impact the top and bottom line. The Cisco Unified Communications portfolio is an integral part of the Cisco Business Communications Solution—an integrated solution for organizations of all sizes which 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 Media Convergence Server 7825-H1 Unified CallManager Appliance (MCS 7825-H1) 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. This powerful platform is a turnkey solution that is easy to deploy and highly cost-effective, and it 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 5.0 application. The server appliance is fully operational upon startup, requiring entry of just a few configuration items such as IP address and domain. The Cisco MCS 7825-H1 Unified CallManager Appliance includes the following features and components:

- 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 80-GB serial advanced technology attachment (ATA) hard-disk drives configured in Redundant Array of Independent Disks (RAID) 1
- Quick-deployment third-party rail kit
- 350 W power-factor-correction (PFC) power supply
- 1 RU (1.75-in.) form factor
- Integrated Lights Out (ILO) remote management

SUPPORTED APPLICATIONS

The Cisco MCS 7825-H1 Unified CallManager Appliance supports up to 1000 IP phones per server and 4000 IP phones per cluster.

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KEY FEATURES AND BENEFITS

Performance

The Cisco MCS 7825-H1 Unified CallManager Appliance is a robust, highly available server platform designed to support Cisco Unified CallManager 5.0 using a single Intel Pentium 4 3.4 GHz processor with an 800 MHz FSB.

Serviceability

System-Health LEDs

The Cisco MCS 7825-H1 Unified CallManager Appliance provides system-health LEDs and unit-identification lights on the front and back of the server to ease the identification of system issues. 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 Unified CallManager Appliance. 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 Unified CallManager Appliance, 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 Unified CallManager Appliance is configured with two 80-GB serial advanced technology attachment (SATA) “cold-pluggable” disk drives configured in a RAID 1 mirror set. The appliance 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 re-mirroring of the new drive to help ensure that drive redundancy on the Cisco MCS 7825-H1 Unified CallManager Appliance is maintained. The serial-drive technology introduced in the Cisco MCS 7825-H1 Unified CallManager Appliance provides a highly reliable, high-performance, cost-effective solution.

PRODUCT SPECIFICATIONS

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

Table 1. Product Specifications of Cisco MCS 7825-H1 Unified CallManager Appliance

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

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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	2GB (2x 1GB)
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 GB per second
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)
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

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Security	
• Power-on password • Keyboard password • Diskette-drive control • Disk-boot control • Administrator’s password • Removable DVD-ROM and disk-drive assembly	
Power	
Maximum Input Power	350W
Auto-Ranging AC Input	Yes
PFC	Yes
Input Frequency Range	47–63Hz
Operation Input Voltage Ranges	• 90–132 VAC minimum • 180–264 VAC maximum
Input Current	• 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)

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ORDERING INFORMATION

To order this product, visit the Cisco Ordering Home Page.

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

- MCS7825H1-K9-CM50
- LIC-CM5.0-K9-7825-H1=
- KEY-CCM-ADMIN-K9= (order a minimum quantity of 2)

APPLIANCE SPARES

To order spare appliances reference the table below.

Table 2. Ordering Information for Spare Appliances

Application	Spare Part Number
Cisco Unified CallManager 5.0	MCS7825H1-K9-CM50

FIELD-REPLACEABLE SPARES

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

Table 3. 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 4 provides the Cisco manufacturing part number that is shown on the chassis to help identify any processor speed of any individual server.

Table 4. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Pentium 4 3.4 GHz	74-4386-01	Initial production of server

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Using the Cisco Lifecycle Services approach, Cisco Systems® and its partners offer a broad portfolio of end-to-end services to support the Cisco Unified Communications system. These services are based on proven methodologies for deploying, operating, and optimizing IP communications solutions. Upfront planning and design services, for example, can help you meet aggressive deployment schedules and minimize network disruption during implementation. Operate services reduce the risk of communications downtime with expert technical support. Optimize services enhance solution performance for operational excellence. Cisco and its partners offer a system-level service and support approach that can help you create and maintain a resilient, converged network that meets your business needs.

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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