

Cisco MCS 7825-I1 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-I1 Unified CallManager Appliance (MCS-7825-I1) is an entry-level appliance for Cisco Unified CallManager 5.0. It 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. It delivers the high performance and availability that today's enterprise networks demand, and it provides a turnkey solution that is easy to deploy and highly cost-effective. The server appliance is preinstalled with an operating system and Cisco Unified CallManager 5.0 software. 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-I1 Unified CallManager Appliance includes the following features and components (Figure 1):

- Intel Pentium 4 3.4GHz processor, an 800MHz front side bus (FSB), and 1MB of Layer 2 cache
- PC3200 double-data-rate-1 (DDR1) memory with 400-MHz synchronous dynamic RAM (SDRAM)
- Two onboard gigabit 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
- 300 W power-factor-correction (PFC) power supply
- 1 RU (1.75-in.) form factor, 20-in. depth

Figure 1. Cisco MCS 7825-I1 Unified CallManager Appliance



SUPPORTED APPLICATIONS

The Cisco MCS 7825-I1 Unified CallManager Appliance supports Cisco Unified CallManager 5.0 with up to 1000 IP phones per server and 4000 IP phones per cluster.

PRIMARY FEATURES AND BENEFITS

Performance

The Cisco MCS 7825-I1 Unified CallManager Appliance is a robust, highly available server platform designed to support today's IP communications applications. It uses a single Intel Pentium 4 3.4 GHz processor with an 800 MHz FSB.

Memory

The Cisco MCS 7825-I1 Unified CallManager Appliance supports up to 4GB of DDR memory. The increased processor performance coupled with DDR memory allows customers to retrieve and process information faster and more efficiently. DDR memory executes twice the number of operations per cycle than traditional SDRAM memory, effectively doubling the data exchange rate between memory and processors.

Variable-Speed Fan Support

The Cisco MCS 7825-I1 Unified CallManager Appliance includes variable-speed fans to reduce operating noise. Through the use of temperature sensors within the server, the speed of the fans is adjusted to maintain the proper cooling. This reduces the noise generated by the fans by operating them only when required and at a speed based upon the cooling requirements.

SATA and Integrated RAID

The Cisco MCS 7825-I1 Unified CallManager Appliance supports enhanced serviceability through integrated RAID level 1 and front-accessible, simple-swap SATA hard-disk drives. If a hard drive fails, user data is preserved on the mirrored drive, and system administrators can easily replace the failing drive without removing the server from the rack. This reduces downtime and provides data reliability in a compact, highly cost-effective server.

System Error LEDs

The Cisco MCS 7825-I1 Unified CallManager Appliance provides a system error LED and system locator LED on the front of the server to make pinpointing system issues easier than ever. When a system error occurs, this indication is made on the front panel of the Cisco MCS 7825-I1 Unified CallManager Appliance. If no failures have occurred, the system error LED is not lit.

PRODUCT SPECIFICATIONS

Table 1 gives product specifications of the Cisco MCS 7825-I1 Unified CallManager Appliance.

Table 1. Product Specifications of Cisco MCS 7825-I1 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

Memory	
Memory Maximum	4GB
Memory Bus Clock	400MHz
Memory Technology	PC2700 DDR SDRAM
Bit-Error Mitigation	Error Checking and Correction (ECC)
Total RAM Slots	4
Memory Installed	2GB (2 x 1GB)
RAID Controller	
Controller Model	IBM mezzanine ServeRAID-7e controller
Interface	Embedded to planar
Cache	No
Battery-Backed Write Caching	No
RAID Levels Supported	1
Hard Disk	
Hard Disk Installed	2 x 80GB
Hard-Disk RPM	7200
Hard-Disk Interface Type	SATA, 1.5Gbps
Network Connectivity	
Ethernet NIC	2 onboard 10/100/1000
Connector	2 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 (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), Category 5E UTP, 5 UTP (2 pair) up to 328 ft (100m)
Expansion Options	
PCI-X Non-Hot Plug 66-MHz and 64-Bit Slots	1 (full height, three-fourths length)
PCI-X Non-Hot Plug 66-MHz and 64-Bit Slots	1 (half height, half length)
Interfaces	
Serial Ports	1 RS-232D
Parallel Ports	0
USB 2.0 Ports	4 (2 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 	
Power	
Maximum Input Power	300W
Auto-Ranging AC Input	Yes
PFC	Yes
Input Frequency Range	47–63Hz
Operational Input Voltage Ranges	<ul style="list-style-type: none"> • 90–139 VAC minimum • 180–264 VAC maximum
Input Current	<ul style="list-style-type: none"> • 3.0A (110 VAC) • 1.5 A (220 VAC)
Environmental	
Air Temperature—Server On	50 to 95°F (10 to 35°C)
Air Temperature—Server Off	–104 to 140°F (–40 to 60° C)
Humidity—Server On	8 to 80% (non-condensing)
Humidity—Server Off	8 to 80%
BTU Rating	853 BTU/hr (per 250W maximum configuration)
Sound Emissions, Idle	6.5 BELS (operating)
Cooling System	6 fans installed
Dimensions	
Form Factor	Rack-mount 1RU
Rack-Mounting	Included for standard third-party rack
Weight Maximum	28.0 lb (12.7 kg)
Height	1.75 in. (4.37 cm)
Width	16.69 in. (43.0 cm)
Depth	20.0 in. (50.8 cm)

ORDERING INFORMATION

To order this product, visit the [Cisco Ordering Home Page](#) or visit <http://www.cisco.com/en/US/ordering/index.shtml>.

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:

- MCS7825I1-K9-CM50
- LIC-CM5.0-K9-7825-I1=
- KEY-CCM-ADMIN-K9= (order a minimum quantity of 2)

APPLIANCE SPARES

Table 2 gives information about ordering spare Cisco Unified CallManager appliances.

Table 2. Ordering Information for Spare Servers by Application

Application	Spare Part Number
Cisco Unified CallManager	MCS7825I1-K9-CM50

FIELD-REPLACEABLE SPARES

Table 3 gives ordering information for appliance spare parts.

Table 3. Ordering Information for Server Spare Parts

Spare-Part Number	Description
MEM-7825-I1-512=	Spare 512MB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-I1 server
MEM-7825-I1-1GB=	Spare Pair 1GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-I1 server
HDD-7825-I1-80=	Spare 80GB SATA hard-disk drive, cold-pluggable

IDENTIFYING SERVER CPU SPEED

As the Cisco MCS 7825-I1 Unified CallManager Appliance matures and as Intel retires slower processors and replaces them with faster processors, the processor speeds will be changed. Table 4 provides the Cisco manufacturing part number that is shown on the chassis to help identify any processor speed of any individual Cisco Unified CallManager Appliance.

Table 4. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Pentium 4 3.4GHz	74-4387-01	Initial production of Cisco Unified CallManager Appliance

CISCO UNIFIED COMMUNICATIONS SERVICES AND SUPPORT

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_inpk/1y1cen_.htm.



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