

Cisco MCS 7825-I2 Unified CallManager Appliance

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The Cisco[®] Unified Communications system of voice and IP communications products and applications helps organizations communicate more effectively—by helping them streamline business processes, reach the right resource the first time, and increase profitability. The Cisco Unified Communications portfolio is an integral part of the Cisco Business Communications Solution—an integrated solution for organizations of all sizes that 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 MCS 7825-I2 Unified CallManager Appliance 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 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 5.1 application. It is fully operational upon startup, requiring entry of just a few configuration items such as IP address and domain. The appliance includes the following features and components:

- Intel dual-core, Pentium D, 2.8- or 3.4-GHz processor with an 800-MHz front side bus (FSB) and 4 MB of Layer 2 cache
- 2 GB of installed PC2-4200 error correction code (ECC) double data rate 2 (DDR2) synchronous dynamic RAM (SDRAM); 8 GB maximum
- Two integrated 10/100/1000T Gigabit Ethernet network-interface-card (NIC) ports
- Two 80-GB serial-advanced-technology-attachment (SATA) hard disk drives configured in Redundant Array of Independent Disks (RAID) level 1
- No floppy diskette drive installed
- Quick-deployment third-party rail kit
- 350W autoranging, Power Factor Correction (PFC) power supply
- One rack unit (1RU) (1.75 in./4.5 cm high) form factor, 22 in./56 cm deep

Product Specifications

Table 1 gives specifications of the Cisco MCS 7825-I2.

Table 1. Specifications of Cisco MCS 7825-I2

Processor at Product Introduction	
Processor (CPU)	Intel Pentium D dual core
Processor internal clock speed	2.8 GHz
Level 2 cache	4 MB
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash memory
Memory	
Memory maximum	8 GB
Memory bus clock	533 MHz
Memory technology	PC2-4200 DDR2 SDRAM
Bit-error mitigation	Error correction code (ECC)
Total RAM slots	4
Memory installed	2 GB (2 x 1 GB)
RAID Controller	
Controller model	IBM mezzanine ServeRAID-8e Controller
Interface	Embedded to planar
Cache	No
Battery-backed write caching	No
RAID levels supported	1
Hard Disk	
Hard disk installed	2 x 80 GB
Hard disk rotate processor module (RPM)	7200
Hard disk I/O transfer rate	1.5 Gbps
Hard disk average seek time	9 ms
Hard disk interface type	SATA
Network Connectivity	
Ethernet NIC	2 onboard 10/100/1000
Connector	2 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	
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)
Note: The Cisco 7825-I2 is not qualified for use with Cisco Unity [®] voice cards for traditional private-branch-exchange (PBX) integrations.	
Interfaces	
Ethernet	2
Serial ports	1
Parallel ports	0
Universal-serial-bus (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 Small Computer System Interface (SCSI) port	None
Security	
<ul style="list-style-type: none"> Power-on and privileged access password functions that control who has access to the data and server setup program on the server Selectable boot sequence that can prevent unauthorized installation of software or removal of data from the diskette drive 	
Power	
Maximum input power	350W
Autoranging AC input	Yes
PFC	Yes
Input low range	100 to 127 (nominal) VAC; 50–60 Hz; 6.0a
Input high range	200 to 240 (nominal) VAC; 50–60 Hz; 3.0a
Input kVA approximately	Maximum configuration 0.290 kVA
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% (noncondensing)
Maximum altitude	7000 ft (2133m)
BTU rating full configuration	989 Btu/hr (290W)
Sound emissions, idle	6.5 bel (operating)
Cooling system	7 fans installed (two are in power supply)
Dimensions	
Form factor	Rack-mount 1RU
Rack-mounting	Included for standard third-party rack
Weight—maximum	30.0 lb (12.7 kg)
Height	1.75 in. (43 mm)
Width	17.32 in. (440 mm)
Depth	22.0 in. (559 mm)
Equipment Approvals and Safety	
<ul style="list-style-type: none"> FCC—Verified to comply with Part 15 of the FCC Rules, Class A Canada ICES-003, issue 4, Class A UL/IEC 60950-1 CAN C22.2 No. 60950-1-03 NOM-019 	

Ordering Information

To order this product, visit the [Cisco Ordering Home Page](#).

You can 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 can also order the components individually using the following product IDs:

- MCS7825I2-K9-CMA2
- LIC-CM5.1-7825=
- KEY-CCM-ADMIN-K9= (order a minimum quantity of 2)
- DAT-USB-EXT-72= (optional external USB Digital Audio Tape [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)

Appliance Spares

To order spare appliances, reference Table 2.

Table 2. Ordering Information for Spare Appliances

Application	Spare Part Number
Cisco Unified CallManager 5.0	MCS7825I2-K9-CMA1

Field-Replaceable Spares

Table 4 gives ordering information for server spare parts.

Table 3. Ordering Information for Server Spare Parts

Spare-Part Number	Description
MEM-7825-I2-1GB=	Spare pair 1-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-I2 server
HDD-7825-I2-80=	Spare 80-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
DAT-USB-ADPT=	PCI-to-USB DAT adapter(required for DAT-USB-EXT-72= or DAT-USB-RM-72=)

Identifying Server CPU Speed

As the Cisco MCS 7825-I2 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 4. Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Dual-Core, Pentium D, 2.8 GHz	74-4493-01	Initial production of server
Intel Dual-Core, Pentium D, 3.4 GHz	74-4486-02	Processor revision due to end of life of the 2.8-GHz 920 processor by Intel

Service and Support

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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_inpck/1y1cen_.htm.



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