

## Cisco MCS 7828-H3 Unified Communications Manager Business Edition Appliance

Cisco® Unified Communications is a comprehensive IP communications system of voice, video, data, and mobility products and applications. It enables more effective, more secure, more personal communications that directly affect both sales and profitability. It brings people together by enabling a new way of communicating—where your business moves with you, security is everywhere, and information is always available...whenever and wherever it is needed. Cisco Unified Communications is part of an integrated solution that includes network infrastructure, security, mobility, network management products, lifecycle services, flexible deployment and outsourced management options, end-user and partner financing packages, and third-party communications applications.

### Product Overview

The Cisco MCS 7828-H3 Unified Communications Manager Appliance Business Edition is an integral part of a complete, scalable architecture for a new generation of high-quality unified communications solutions that operate on business data networks. A solution that is easy to deploy and highly cost-effective, this powerful platform delivers the high performance and availability that today's business networks demand. The server appliance is preinstalled with an operating system and the Cisco Unified Communications Manager Business Edition 6.0 software suite. Cisco Unified Communications Manager Business Edition is fully operational upon startup, requiring entry of just a few configuration variables such as IP address and domain. The server appliance includes the following features and components:

- Intel Dual-Core Xeon 2.13-GHz processor with a 1060-MHz front side bus (FSB) and 2 MB of Layer 2 cache
- 6-GB PC2-5300 double-data-rate 2 (DDR2) Error Checking and Correcting (ECC) memory
- Two 250-GB cold-swap serial advanced technology attachment (SATA) hard disk drives configured with Redundant Array of Independent Disks (RAID) 1
- Dual-port Gigabit Ethernet controller (embedded)
- Quick-deployment third-party rail kit

### Product Specifications

Table 1 gives specifications of the Cisco MCS 7828-H3.

**Table 1.** Specifications of Cisco MCS 7828-H3

Processor at Product Introduction	
Processor (CPU)	Intel Dual-Core Pentium Xeon
Processor internal clock speed	2.13 GHz (or greater)
Level 2 cache	2 MB
Maximum processors	1
Processors installed	1 (with 2 cores)

<b>Basic input/output system (BIOS) type</b>	Flash memory
<b>Memory</b>	
<b>Memory maximum</b>	8 GB
<b>Memory bus clock</b>	667 MHz
<b>Memory technology</b>	PC2-5300 667-MHz DDR2 synchronous dynamic RAM (SDRAM)
<b>Total RAM slots</b>	4
<b>Memory installed</b>	6 GB ( 2 x 1-GB, 2 x 2-GB dual in-line memory modules [DIMMs])
<b>RAID Controller</b>	
<b>Controller model</b>	Integrated Intel 82801 GR SATA Host Controller with RAID 0/1 support
<b>Interface</b>	SATA
<b>Cache</b>	No
<b>Battery-backed write caching</b>	No
<b>RAID levels supported</b>	0 and 1
<b>Hard Disk</b>	
<b>Cold-swappable bays</b>	2
<b>Hard disk installed</b>	2 x 250 GB
<b>Hard-disk rotate processor module (RPM)</b>	7200
<b>Data-transfer rate</b>	150 MB per second
<b>Hard-disk average seek time</b>	9 ms
<b>Hard-disk interface type</b>	SATA
<b>Network Connectivity</b>	
<b>Ethernet network interface card (NIC)</b>	Dual onboard 10/100/1000
<b>Ethernet connectors</b>	Two RJ-45 connectors on rear of server
<b>10BASE-T cable support</b>	EIA Category 3, 4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 ft (100m)
<b>100BASE-TX cable support</b>	EIA Category 5 UTP (2 pair) up to 328 ft (100m)
<b>1000BASE-T cable support</b>	EIA category 6 UTP (recommended), 5E UTP, or 5 UTP (2 pair) up to 328 ft (100m)
<b>Expansion Options</b>	
<b>8x PCI-Express full height, three-quarter length</b>	1
<b>8x PCI-Express low profile, half length</b>	1
<b>Interface Port Specifications</b>	
<b>System management ports</b>	Integrated Lights Out (iLO) remote
<b>Serial ports</b>	1
<b>Parallel ports</b>	0
<b>Universal-serial-bus (USB) 2.0 ports</b>	4 (1 at front, 1 internal, 2 rear)
<b>Keyboard ports</b>	1
<b>Mouse ports</b>	1
<b>Audio ports</b>	None
<b>Video Graphics Array (VGA) ports</b>	1

Security	
<ul style="list-style-type: none"> <li>• Power-on password</li> <li>• Keyboard password</li> <li>• USB port control</li> <li>• Option to use a selectable boot sequence to prevent unauthorized installation of software or removal of data from the diskette drive</li> <li>• Administrator's password</li> </ul>	
Power	
Power-supply output power	420W (rated steady-state power)
Autoranging AC input	Yes
PFC	Yes
Input requirements range line voltage	90 to 264 VAC
Nominal line voltage	100 to 120 VAC and 220 to 240 VAC
Rated input current	6A (100 to 120 VAC) to 3A (200 to 240 VAC)
Rated input frequency	47 to 63 Hz
Rated input power	<ul style="list-style-type: none"> <li>• @ 115V input; Rated input power = 486W (assume Output wattage = 450W)</li> <li>• @ 230V input; Rated input power = 479W (assume Output wattage = 450W)</li> </ul>
Environmental	
Operating ambient temperature	50 to 95°F (10 to 35°C)
Operating temperature de-rating	1.8°F per 1000 to 10,000 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
Sound emissions, idle	6.3 bel (operating)
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 order this product, visit the [Cisco Ordering Home Page](#).

- You can order the appliance using the top-level part number CUCM6-BE. Enter the top-level part number into the Cisco Dynamic Configuration Tool on Cisco.com to view a list of options and associated licenses. You can order the following components separately:
- 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)
- MOH-USB-AUDIO= (USB music-on-hold adapter)

## Server Spares

To order spare servers, refer to Table 2.

**Table 2.** Ordering Information for Spare Server

Application	Spare Part Number
Cisco MCS 7828-H3 HW Only Service Spare	MCS7828H3-SS1

## Field-Replaceable Spares

To order spare parts for the servers, refer to Table 3.

**Table 3.** Ordering Information for Server Spare Parts

Spare Part Number	Description
MEM-7828-H3-1GB=	Spare 1-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7828-H3 appliance
MEM-7828-H3-2GB=	Spare 2-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7828 appliance
HDD-7828-H3-250=	Spare 250-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=(required for DAT-USB-EXT-72= or DAT-USB-RM-72=)	PCI-to-USB DAT adapter

## Identifying Server CPU Speed

As the Cisco MCS 7828-H3 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 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 Xeon 3050, 2.13 GHz	74-5015-01	Initial production of server

## Warranty Information

Cisco offers a 1-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\\_inpc/1y1cen\\_.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpc/1y1cen_.htm).

## Cisco Unified Communications Services and Support

Using the Cisco Lifecycle Services approach, Cisco 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. Initial 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, and 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.



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