

Cisco MCS 7825-H3

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.

The Cisco MCS 7825-H3 Media Convergence Server is an entry-level server platform used for Cisco Unified Communications solutions. An integral part of a complete, scalable architecture for a new generation of high-quality IP voice solutions that run on enterprise data networks, the Cisco MCS 7825-H3 is an easily deployed, cost-effective solution that delivers the high performance and availability demanded by today's enterprise networks. At only 1 rack unit (1RU) high, the Cisco MCS 7825-H3 offers tremendous power in a low-profile chassis that minimizes rack space and offers the following features:

- Intel Dual-Core Xeon 3050 2.13-GHz processor with an 1066-MHz front side bus (FSB) and 2 MB of Layer 2 cache
- 2-GB PC2-5300 double-data-rate 2 (DDR2) Error Checking and Correcting (ECC) memory
- Two 160-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

Supported Cisco Applications

- Cisco CallManager 3.3
- Cisco Unified CallManager 4.0
- Cisco Unified CallManager 4.1
- Cisco Unified CallManager 4.2
- Cisco Unified Communications Manager 4.3
- Cisco IP Interoperability and Collaboration System (IPICS)
- Cisco Emergency Responder 1.3
- Cisco Unified Contact Center Enterprise 6.x
- Cisco Unified Contact Center Enterprise 7.x
- Cisco Unified Contact Center Express 3.1
- Cisco Unified Contact Center Express 3.5
- Cisco Unified Contact Center Express 4.x

- Cisco Unified Contact Center Express 5.x
- Cisco Unified Contact Center Hosted 7.x
- Cisco Unified Intelligent Contact Management Enterprise 6.x
- Cisco Unified Intelligent Contact Management Enterprise 7.x
- Cisco Unified Intelligent Contact Management Hosted 7.x
- Cisco Unified IP Interactive Voice Response (IVR) 3.1
- Cisco Unified IP IVR 3.5
- Cisco Unified IP IVR 4.x
- Cisco Unified IP IVR 5.x
- Cisco Unified MeetingPlace Express 2.0
- Cisco Unified MeetingPlace Express VT 2.0
- Cisco Unified Mobile Communicator 3.0
- Cisco Unified Presence
- Cisco Unity 4.x
- Cisco Unity 5.x
- Cisco Unity Connection 1.x
- Cisco Unity Connection 2.x

Key Features and Benefits

Performance

The Cisco MCS 7825-H3 is a robust, highly available server platform designed to support today's unified communications applications. It uses a single Intel Dual-Core Xeon 3050 2.13-GHz processor with a 1066-MHz FSB.

Serviceability

Serviceable SATA Disk Drives

The Cisco MCS 7825-H3 is configured with two 160-GB SATA "cold-pluggable" disk drives, which are accessible to the end user through openings in the front bezel of the server. If a drive fails, the 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.

DAT Tape Drive Support

The Cisco MCS 7825-H3 can support a 36-/72-GB universal-serial-bus (USB) external Digital Audio Tape (DAT) drive (part number DAT-USB-EXT-72=) or an optional 36-/72-GB USB rack-mount DAT drive (part number DAT-USB-RM-72=). This tape drive connects through one of the USB 2.0 ports provided by the Cisco MCS 7825-H3 server.

Product Specifications

Table 1. Product Specifications

Processor (CPU)	Intel Dual-Core Xeon 3050
Processor internal clock speed	2.13 GHz
Level 2 cache	2 MB
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash

Table 2. Memory Specifications

Memory maximum	8 GB
Memory bus clock	667 MHz
Memory technology	PC2-5300 667-MHz DDR2 synchronous dynamic RAM (SDRAM)
Total RAM slots	4
Memory installed	2 GB (two 1-GB dual in-line memory modules [DIMMs])

Table 3. RAID Controller Specifications

Controller model	Integrated Intel 82801 GR Serial ATA Host Controller with RAID 0/1 support
Interface	Serial ATA
RAID levels supported	0 and 1

Table 4. Hard Disk Specifications

Cold-swappable bays	2
Hard disk interface type	SATA
Hard disk installed	Two 160 GB
Hard disk (rpm)	7200
Hard disk average seek time	9 ms
Data transfer rate (burst)	150 MB per second

Table 5. Network Interface Specifications

Ethernet network interface card (NIC)	Dual onboard 10/100/1000
Ethernet connectors	Two RJ-45 connectors on rear of server
10BASET cable support	EIA Category 3, 4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 ft (100m)
100BASETX cable support	EIA Category 5 UTP (2 pair) up to 328 ft (100m)
1000BASET cable support	EIA Category 6 UTP (recommended), 5E UTP, 5 UTP (2 pair) up to 328 ft (100m)

Table 6. Interface Port Specifications

Serial ports	1
Parallel ports	0

USB 2.0 ports	4 (1 front, 1 internal, 2 rear)
Keyboard ports	1
Mouse ports	1
Audio ports	None
Video Graphics Array (VGA) ports	1
System management ports	Integrated Lights Out (iLO) remote

Table 7. Security Capabilities

<ul style="list-style-type: none"> • Power-on password • Keyboard password • USB port control • Administrator's password • Ability to use a selectable boot sequence to prevent unauthorized installation of software or removal of data from the diskette drive

Table 8. Standards Compliance

<ul style="list-style-type: none"> • ACPI 2.0 • PCI 3.0 compliant • PXE support • WOL support • USB 2.0
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Table 9. Expansion Options and Interfaces

Expansion Options	
8x PCI-Express full height, three-quarter length	1
8x PCI-Express low profile, half length	1

Table 10. System Unit Specifications

Dimensions (H x W x D)	1.70 x 16.78 x 24.0 in.	43.2 x 426.2 x 609.6 mm
Weight (maximum)	27 lb	12.27 kg
Input requirements (per power supply)	Rated line voltage	100–120 VAC and 220–240 VAC
	Rated input current	6A (100 - 120 VAC) 3A (220 - 240 VAC)
	Rated input frequency	47 – 63 Hz
BTU rating (maximum)	BTU/hr	1710
Power supply output power	Rated steady-state power	420W
Temperature range	Operating	50° to 95°F (10° to 35°C)
	Nonoperating	-22 to 140°F (-30 to 60°C)
	Shipment	-22 to 140°F (-30 to 60°C)
Relative humidity (RH; noncondensing)	Operating	10% to 90%
Acoustic noise	Operating minimum (random seeks to fixed disks)	L WAd (BELS) 6.3

Table 11. Equipment Approvals and Safety

- FCC – Verified to comply with Part 15 of the FCC Rules, Class A
- CISPR 22 Class A
- EN 55022 (1998) + A1 + A2 Class B
- EN 55024 (1998) + A1 + A2
- IEC 61000-3-2 (2000) / EN 61000-3-2 (2000)
- IEC EN 61000-3-3 (1995) + A1 (2001) / EN 61000-3-3 (1995) + A1 (2001)
- KN 22 Class B (MIC Notice 2001-115) MIC certification
- KN 24 (MIC Notice 2001-116) MIC certification
- CNS 13438 (BSMI certification)
- GB 9254 Class B (CCC certification)
- VCCI Class A (VCCI certification)
- CSA C22.2 No. 60950-1-03 Information Technology Equipment—Safety—Part 1: General Requirements
- UL 60950-1 Information Technology Equipment—Safety—Part 1: General Requirements
- IEC 60950-1 Information Technology Equipment—Safety—Part 1: General Requirements + CB report covering national deviations for intended markets.
- ACA AS/ACIF S004:2001
- CCC - China Certificate for China Compulsory Product Certification
- EK1-ITB2000 (2006)
- DIN EN ISO 12100-2 (2004)
- DIN EN ISO 7779 (2001)
- EN 60951-1 (2001) + A11 (2004)
- CE Mark (Low Voltage Directive 73/23/EEC, EMC Directive 89/336/EEC)
- WEEE

Table 12. Ordering Information

Product Name	Part Number
Cisco MCS 7825-H3 for Cisco CallManager 3.3	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Emergency Responder 1.3	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unified CallManager 4.0	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unified CallManager 4.1	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unified CallManager 4.2	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unified Communications Manager 4.3	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco IPCS	MCS-7825-H3-S31
Cisco MCS 7825-H3 for Cisco Unified Contact Center Enterprise 6.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H3 for Cisco Unified Contact Center Enterprise 7.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H3 for Cisco Contact Center Express 3.1	MCS-7825-H3-CCX1
Cisco MCS 7825-H3 for Cisco Contact Center Express 3.5	MCS-7825-H3-CCX1
Cisco MCS 7825-H3 for Cisco Contact Center Express 4.x	MCS-7825-H3-CCX1
Cisco MCS 7825-H3 for Cisco Contact Center Express 5.x	MCS-7825-H3-CCX1
Cisco MCS 7825-H3 for Cisco Unified Contact Center Hosted 7.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H3 for Cisco Unified Intelligent Contact Manager Enterprise 6.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H3 for Cisco Unified Intelligent Contact Manager Enterprise 7.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H3 for Cisco Unified Intelligent Contact Manager Hosted 7.x	MCS-7825-H3-CCE1
Cisco MCS 7825-H4 for Cisco Unified IP IVR 3.1	MCS-7825-H3-CCX1
Cisco MCS 7825-H4 for Cisco Unified IP IVR 3.5	MCS-7825-H3-CCX1
Cisco MCS 7825-H4 for Cisco Unified IP IVR 4.x	MCS-7825-H3-CCX1
Cisco MCS 7825-H4 for Cisco Unified IP IVR 5.x	MCS-7825-H3-CCX1
Cisco MCS 7825-H3 for Cisco Unified Meeting Express	MCS-7825-H3-RC1
Cisco MCS 7825-H3 for Cisco Unified Presence	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unified Mobile Communicator 3.0, Proxy Server	MCS-7825-H3-IPC1
Cisco MCS 7825-H3 for Cisco Unity	MCS-7825-H3-ECS1

Cisco MCS 7825-H3 for Cisco Unity Connection 1.x	MCS-7825-H3-UC1
Cisco MCS 7825-H3 for Cisco Unity Connection 2.x	MCS-7825-H3-UCA1
Spare 1024-MB SDRAM DIMM for Cisco MCS 7825-H3	MEM-7825-H3-1GB=
Spare 160-GB cold swap SATA drive for Cisco MCS 7825-H3	HDD-7825-H3-160=

Identifying CPU Speed of Server

As the Cisco MCS 7825-H3 matures, the processor speeds will be changed as Intel replaces slower processors. The following table provides the Cisco manufacturing part number that will be shown on the chassis to help identify any processor speed of any individual server.

Table 13. 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 the servers with the following part numbers: MCS-7825-H3-CCE1 MCS-7825-H3-CCX1 MCS-7825-H3-ECS1 MCS-7825-H3-IPC1
Intel Dual-Core 3050 Xeon, 21.3 GHz	74-5059-01	MCS-7825-H3-UC1

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_inpck/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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