

Cisco MCS 7825-I3

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-I3 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-I3 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-I3 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 (must be installed in pairs)
- Two 160-GB cold-swap serial advanced technology attachment (SATA) hard disk drives configured as 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 Emergency Responder 1.3
- Cisco IP Interoperability and Collaboration System (IPICS)
- Cisco Unified CallManager 4.0
- Cisco Unified CallManager 4.1
- Cisco Unified CallManager 4.2
- Cisco Unified Communications Manager 4.3
- 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 Presence
- 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 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-I3 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-I3 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-I3 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-I3 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	IBM Simple Swap SATA RAID Kit
Interface	SATA
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
Keyboard ports	1
Mouse ports	1
Audio ports	None
Video Graphics Array (VGA) ports	1
System management ports	None

Table 7. Security Capabilities

- Power-on password and privileged access password functions control access to the data and server setup program on the server.
- A selectable boot sequence can be used to prevent unauthorized installation of software or removal of data from the diskette drive.

Table 8. Standards Compliance

- PCI specification 2.2
- Hardware enabled to meet the International Organization for Standardization (ISO) 9241, Part 3 standard

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)	1.75 x 17.32 x 22.0 in.	43 x 440 x 559 mm
Weight (maximum)	28 lb	12.7 kg
Input requirements (per power supply)	Rated line voltage	100–127 VAC and 200–240 VAC
	Rated input current	6A (100 VAC), 6A (120 VAC), and 3A (200 VAC)
	Rated input frequency	50–60 Hz
BTU rating (maximum)	BTU/hr	1048
Power supply output power	Rated steady-state power	351W
Temperature Range	Operating	50° to 95°F (10° to 35°C) at 0 - 3000 feet (0 - 914.4 meters) 50° to 89.6°F (10° to 32°C) at 3000 - 6998 feet (914.4 - 2133 meters)
	Non-operating	50 to 109.4°F (10 to 43°C)
	Shipment	-40 to 140°F (-4 to 60°C)
Relative humidity (RH; noncondensing)	Operating	8 to 80%
Maximum altitude	7000 ft	2133m
Acoustic noise	Operating minimum (random seeks to fixed disks)	L WAd (BELS) 6.5

Table 11. Equipment Approvals and Safety

- FCC—Verified to comply with Part 15 of the FCC Rules, Class A
- Canada ICES-003, issue 4, Class A
- UL/IEC 60950-1*
- CSA C22.2 No. 60950-1-03
- NOM-01913

* This server model is certified by the respective UL and NOM agencies.

Table 12. Ordering Information

Product Name	Part Number
Cisco MCS 7825-I3 for Cisco CallManager 3.3	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Emergency Responder 1.3	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco IPCS	MCS-7825-I3-S31
Cisco MCS 7825-I3 for Cisco Unified CallManager 4.0	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Unified CallManager 4.1	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Unified CallManager 4.2	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Unified Communications Manager 4.3	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Enterprise 6.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Enterprise 7.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Express 3.1	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Express 3.5	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Express 4.x	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Express 5.x	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified Contact Center Hosted 7.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified Intelligent Contact Management Enterprise 6.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified Intelligent Contact Management Enterprise 7.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified Intelligent Contact Management Hosted 7.x	MCS-7825-I3-CCE1
Cisco MCS 7825-I3 for Cisco Unified IP IVR 3.1	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified IP IVR 3.5	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified IP IVR 4.x	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified IP IVR 5.x	MCS-7825-I3-CCX1
Cisco MCS 7825-I3 for Cisco Unified MeetingPlace Express	MCS-7825-I3-RC1
Cisco MCS 7825-I3 for Cisco Unified Presence	MCS-7825-I3-IPC1
Cisco MCS 7825-I3 for Cisco Unity	MCS-7825-I3-ECS1
Cisco MCS 7825-I3 for Cisco Unity Connection 1.x	MCS-7825-I3-UC1
Cisco MCS 7825-I3 for Cisco Unity Connection 2.x	MCS-7825-I3-UCA1
Spare Two 1024-MB SDRAM DIMM for Cisco MCS 7825-I3	MEM-7825-I3-2GB=
Spare 160-GB cold swap SATA drive for Cisco MCS 7825-I3	HDD-7825-I3-160=

Identifying CPU Speed of Server

As the Cisco MCS 7825-I3 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.

