Cisco MCS 7825-I2

This product is no longer being sold and might not be supported. Read the End-of-Life Notice to learn about potential replacement products and information about product support.

Product Overview

The Cisco® MCS 7825-I2 Media Convergence Server is a powerful platform for Cisco Unified Communications applications. It occupies only 1 rack unit (1RU) while providing the features most requested in a server platform at a very economical price point.

- Intel dual-core, Pentium D, 2.8-GHz 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 memory, error correction code (ECC), Double Data Rate 2 (DDR2), synchronous dynamic RAM (SDRAM); 8 GB maximum
- Two integrated 10/100/1000BASE-T 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
- 1RU (1.75-in.-high [4.5-cm]) form factor, 22 in. (56 cm) deep

Supported Applications

The Cisco MCS 7825-I2 supports the following applications:

- Cisco Unified CallManager—Up to 1000 IP phones per server and 4000 IP phones per cluster
- Cisco Emergency Responder—Up to 12,000 IP phones
- Cisco Unified Presence Server
- Cisco Unified Intelligent Contact Management Enterprise
- Cisco Unified Intelligent Contact Management Hosted
- Cisco Unified Contact Center Enterprise
- Cisco Unified Contact Center Hosted
- Cisco Unified Contact Center Express
- Cisco Unified IP Interactive Voice Response (IP IVR)
- Cisco Unified MeetingPlace® Express
- Cisco Unified IP Queue Manager
- Cisco Unity® Unified Messaging

Primary Features and Benefits

Performance

The Cisco MCS 7825-I2 is a robust, highly available server platform designed to support today's IP communications applications. It uses a single Intel dual-core, Pentium D, 2.8- or 3.4-GHz processor with an 800-MHz FSB.

Memory

The Cisco MCS 7825-I2 supports up to 8 GB of DDR2 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-I2 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, reducing the noise generated by the fans by operating them only when required and at a speed based upon the cooling requirements.

Serviceability

SATA and Integrated RAID

The Cisco MCS 7825-I2 server 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, reducing downtime and providing data reliability in a compact, highly cost-effective server.

System Error LEDs

The Cisco MCS 7825-I2 provides a system error LED and system locator LED on the front of the server to make pinpointing system problems easier than ever. When a system error occurs, this indication is made on the front panel of the Cisco MCS 7825-I2. If no failures have occurred, the system error LED is not lit.

DAT Tape Drive Support

The Cisco MCS 7825-I2 can support an optional 36-/72-GB USB external Digital Audio Tape (DAT) drive, which connects through the USB 2.0 port on the server. It is available as either an external tape drive (part number DAT-USB-EXT-72=) or as a rack-mounted drive (part number DAT USB-RM-72=).

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 or 3.4 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 checking and correction (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 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 cards
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 MCS 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
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	
• Power-on and privileged access password functions control access to the data and server setup program on the server. • Selectable boot sequence can prevent unauthorized installation of software or removal of data from the diskette drive.	
Equipment Approvals and Safety	
• FCC—Verified to comply with Part 15 of the Federal Communications Commission (FCC) Rules, Class B • Canada Information Collection and Evaluation Standard (ICES)-003, issue 3, Class B • UL/IEC 60950-1* • CSA C22.2 No. 60950-1-03 • NOM-019*	

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℉ (10 to 35℃)
Air temperature—Server off	104 to 140℉ (40 to 60℃)
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	
- 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	

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

Ordering Information

To place an order, visit the Cisco Ordering Home Page. Table 2 gives the part numbers for ordering.

Table 2. Ordering Information for Cisco Applications

Product Name	Part Number
Cisco CallManager 3.3	CALLMANAGER-3.3
Cisco Unified CallManager 4.0	CALLMANAGER-4.0
Cisco Unified CallManager 4.1	CALLMANAGER-4.1
Cisco Unified CallManager 4.2	CALLMANAGER-4.2
Cisco Emergency Responder	Refer to Cisco Emergency Responder data sheet
Cisco Unified Presence Server	Refer to Cisco Unified Presence Server data sheet
Cisco Unified Intelligent Contact Management Enterprise	ICM-BUNDLE
Cisco Unified Intelligent Contact Management Hosted	HOSTED-BUNDLE
Cisco Unified Contact Center Enterprise	IPCE-BUNDLE
Cisco Unified Contact Center Hosted	HOSTED-BUNDLE

Cisco Unified Contact Center Express	• IPCX-40-STANDARD • IPCX-40-ENHANCED • IPCX-40-PREMIUM • UCCX-45-STANDARD • UCCX-45-ENHANCED • UCCX-45-PREMIUM
Cisco Unified IP IVR	IPIVR-3.5=
Cisco Unified MeetingPlace Express	Refer to Cisco Unified MeetingPlace Express data sheet
Cisco Unified IP Queue Manager	IPQM-3.5=
Cisco Unity Unified Messaging	UNITY-BUNDLE

Server Spares

Table 3 gives information about ordering spare servers.

Table 3.   Ordering Information for Spare Servers by Application

Application	Spare Part Number
Cisco CallManager	MCS-7825-I2-IPC1
Cisco Emergency Responder	MCS-7825-I2-IPC1
Cisco Unified Presence Server	MCS-7825-I2-IPC1
Cisco Unified Intelligent Contact Management Enterprise	MCS-7825-I2-CCE1
Cisco Unified Intelligent Contact Management Hosted	MCS-7825-I2-CCE1
Cisco Unified Contact Center Enterprise	MCS-7825-I2-CCE1
Cisco Unified Contact Center Hosted	MCS-7825-I2-CCE1
Cisco Unified Contact Center Express	MCS-7825-I2-CCX1
Cisco Unified IP IVR	MCS-7825-I2-CCX1
Cisco Unified MeetingPlace Express	MCS-7825-I2-RC1
Cisco Unified IP Queue Manager	MCS-7825-I2-CCX1
Cisco Unity Unified Messaging	MCS-7825-I2-ECS1

Field-Replaceable Spares

Table 4 gives ordering information for server spare parts.

Table 4.   Ordering Information for Server Spare Parts

Spare Part Number	Description
MEM-7825-I2-1GB=	Spare pair 1-GB SDRAM dual in-line memory modules (DIMMs) for Cisco MCS 7825-I2 server
HDD-7825-I2-80=	Spare 80-GB SATA hard disk drive, cold-pluggable

Identifying Server CPU Speed

As the Cisco MCS 7825-I2 matures, the processor speeds will change 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 5.   Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Dual-Core, Pentium D, 2.8 GHz	74-4486-01	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

Cisco offers a wide range of services programs to accelerate customer success. These innovative services programs are delivered through a unique combination of people, processes, tools, and partners, resulting in high levels of customer satisfaction. Cisco services help you protect your network investment, optimize network operations, and prepare your network for new applications to extend network intelligence and the power of your business. For more information about Cisco services, refer to Cisco Technical Support Services or Cisco Advanced Services.

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.

Printed in USA

C78-340210-02   03/08