



## Data Sheet

# Cisco MCS 7825-I2-UC1 Media Convergence Server

## PRODUCT OVERVIEW

The Cisco<sup>®</sup> MCS 7825-I2-UC1 Media Convergence Server is a powerful platform for Cisco Unity<sup>®</sup> Connection and is preinstalled with an operating system optimized for the application. It occupies only 1 rack unit (1RU) while providing the features most requested in a server platform at a very economical price point.

- Intel Pentium D dual-core 2.8-GHz processor, an 800-MHz front side bus (FSB), and 4 MB of Layer 2 cache
- PC2-4200 Double Data Rate 1 (DDR1) memory
- Two onboard Gigabit Ethernet network interface cards (NICs)
- Two 80-GB serial-advanced-technology-attachment (SATA) hard disk drives configured in Redundant Array of Independent Disks (RAID) 1
- Quick-deployment third-party rail kit
- 350W Power Factor Correction (PFC) power supply
- 1RU (1.75-in.) form factor, 22-in. deep

## SUPPORTED APPLICATIONS

The Cisco MCS 7825-I2-UC1 supports Cisco Unity Connection.

## PRIMARY FEATURES AND BENEFITS

### Performance

The Cisco MCS 7825-I2-UC1 is a robust, highly available server platform designed to support today's IP Communications applications. It uses a single Intel Pentium D dual-core 2.8-GHz processor with an 800-MHz FSB.

### Memory

The Cisco MCS 7825-I2-UC1 supports up to 8 GB of DDR 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 synchronous dynamic RAM (SDRAM) memory, effectively doubling the data exchange rate between memory and processors.

### Variable-Speed Fan Support

The Cisco MCS 7825-I2-UC1 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.

### SATA and Integrated RAID

The Cisco MCS 7825-I2-UC1 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-UC1 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-UC1. 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 universal-serial-bus (USB) external Digital Audio Tape (DAT) drive. This tape drive connects through the USB 2.0 port on the server. The 36/72-GB DAT drive 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 product specifications of the Cisco MCS 7825-I2-UC1.

**Table 1.** Product Specifications

<b>Processor at Product Introduction</b>	
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
<b>Memory</b>	
Memory maximum	8 GB
Memory bus clock	533 MHz
Memory technology	PC2-4200 DDR SDRAM
Bit-error mitigation	Error correction code (ECC)
Total RAM slots	4
Memory installed	2 GB (2 x 1 GB)
<b>RAID Controller</b>	
Controller model	IBM mezzanine ServeRAID-8e Controller
Interface	Embedded to planar
Cache	No
Battery-backed write caching	No
RAID levels supported	1
<b>Hard Disk</b>	
Hard disk installed	2 x 80 GB
Hard disk rotate processor module (RPM)	7200
Hard disk interface type	SATA

<b>Network Connectivity</b>	
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)
<b>Expansion Options</b>	
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)
<b>Interfaces</b>	
Serial ports	1 RS-232D
Parallel ports	0
USB 2.0 ports	4
Keyboard port	1 PS/2
Mouse port	1 PS/2
Audio ports	None
External Small Computer System Interface (SCSI) port	None
<b>Security</b>	
<ul style="list-style-type: none"> <li>• Power-on and privileged access password functions that control who has access to the data and server setup program on the server</li> <li>• Selectable boot sequence that can prevent unauthorized installation of software or removal of data from the diskette drive</li> </ul>	
<b>Power</b>	
Maximum input power	350W
Autoranging AC input	Yes
PFC	Yes
Input low range	100 to 127 (nominal) VAC; 50–60Hz; 6A
Input high range	200 to 240 (nominal) VAC; 50–60Hz; 3A
Input kVA approximately	Maximum configuration 0.290 kVA
<b>Environmental</b>	
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)
<b>Dimensions</b>	
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. (43mm)
Width	17.32 in. (440mm)
Depth	22.0 in. (559mm)
<b>Equipment Approvals and Safety</b>	
<ul style="list-style-type: none"> <li>• FCC—Verified to comply with Part 15 of the FCC Rules, Class A</li> <li>• Canada ICES-003, issue 4, Class A</li> <li>• UL/IEC 60950-1</li> <li>• CAN C22.2 No. 60950-1-03</li> <li>• NOM-019</li> </ul>	

## ORDERING INFORMATION

To place an order, visit the [Cisco Ordering Home Page](#). Table 2 gives the part number for ordering based on product.

**Table 2.** Ordering Information

Product Name	Part Number
Cisco Unity Connection	UNITYCN-BUNDLE

## SERVER SPARES

Table 3 gives information about ordering spare servers.

**Table 3.** Ordering Information for Spare Servers

Application	Spare Part Number
Cisco Unity Connection	MCS-7825-I2-UC1

## 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-I2-2GB=	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

## 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 5.** Manufacturing Part Numbers by Processor Speed

Processor	Manufacturing Part Number Located on Server	Introduction
Intel Pentium 4 3.4-GHz processor	74-4521-01	Initial production of server

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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\\_inpk/1y1cen\\_.htm](http://www.cisco.com/univercd/cc/td/doc/es_inpk/1y1cen_.htm).

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