CISCO SYSTEMS

DATA SHEET

CISCO MEDIA CONVERGENCE SERVER 7825-I1

Figure 1. Cisco MCS 7825-I

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® Media Convergence Server 7825-I1 (MCS 7825-I1) is a powerful platform for Cisco IP Communications applications. The Cisco MCS 7825-I1 occupies only 1 rack unit (RU) while providing the features most requested in a server platform at a very economical price point. (Refer to Figure 1.)

- Intel Pentium 4 3.4 GHz processor, an 800 MHz front side bus (FSB), and 1MB of Layer 2 cache
- PC3200 double-data-rate-1 (DDR1) memory with 400 MHz synchronous dynamic RAM (SDRAM)
- Two onboard gigabit 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
- 300W power-factor-correction (PFC) power supply
- 1RU (1.75 in.) form factor, 20 in. depth

SUPPORTED APPLICATIONS

The Cisco MCS 7825-I1 supports the following applications:

- Cisco CallManager—Up to 1000 IP phones per server and 4000 IP phones per cluster
- Cisco Emergency Responder—Up to 12,000 IP phones
- Cisco Intelligent Contact Management (ICM) Enterprise
- Cisco ICM Hosted
- Cisco IP Contact Center (IPCC) Enterprise
- Cisco IPCC Hosted
- Cisco IPCC Express (Integrated Contact Distribution [ICD])
- Cisco IP Interactive Voice Response (IP IVR)
- Cisco Personal Assistant—Up to 2500 users per server
- Cisco Queue Manager
- Cisco Unity Unified Messaging—Up to 24 ports and 1000 mailboxes

PRIMARY FEATURES AND BENEFITS

Performance

The Cisco MCS 7825-I1 is a robust, highly available server platform designed to support today's IP Communications applications. It uses a single Intel Pentium 4 3.4 GHz processor with an 800 MHz FSB.

Memory

The Cisco MCS 7825-I1 supports up to 4 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 SDRAM memory, effectively doubling the data exchange rate between memory and processors.

Variable-Speed Fan Support

The Cisco MCS 7825-I1 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. This reduces 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-I1 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. This reduces downtime and provides data reliability in a compact, highly cost-effective server.

System Error LEDs

The Cisco MCS 7825-I1 provides a system error LED and system locator LED on the front of the server to make pinpointing system issues easier than ever. When a system error occurs, this indication is made on the front panel of the Cisco MCS 7825-I1. If no failures have occurred, the system error LED is not lit.

DAT Tape Drive Support

The Cisco MCS 7825-I1 can support an optional 20 or 40 GB external digital-audio-tape (DAT) drive. This tape drive connects through a Small Computer System Interface (SCSI) cable to an external SCSI port. The external DAT drive is orderable (part number MCS-EXT-DAT) and a PCI-based SCSI card is orderable (part number MCS-EXT-SCSI) to provide the external SCSI port. DAT is only supported with Unity applications.

PRODUCT SPECIFICATIONS

Table 1 gives product specifications of the Cisco MCS 7825-I1.

Table 1.   Product Specifications of Cisco MCS 7825-I1

Features	Descriptions
Processor at Product Introduction	
Processor (CPU)	Prescott Pentium 4
Processor internal clock speed	3.4 GHz (or greater)
Level 2 cache	1 MB
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash memory

Features	Descriptions
Memory	
Memory maximum	4 GB
Memory bus clock	400 MHz
Memory technology	PC2700 DDR SDRAM
Bit-error mitigation	Error Checking and Correction (ECC)
Total RAM slots	4
Memory installed	• 1 GB (2 x 512)—ECS1 version • 2 GB (2 x 1 GB)—CC1 and IPC1 versions
RAID Controller	
Controller model	IBM mezzanine ServeRAID-7e 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 interface type	SATA, 1.5 Gbps
Network Connectivity	
Ethernet NIC	2 onboard 10/100/1000
Connector	2 RJ-45 connectors on back of server
10BASE-T cable support	EIA Categories 3, 4, or 5 unshielded twisted-pair (UTP) (2 or 4 pair) up to 328 ft (100 m)
100BASE-TX cable support	EIA Category 5 UTP (2 pair) up to 328 ft (100 m)
1000BASE-T cable support	EIA Category 6 UTP (recommended), Category 5E UTP, 5 UTP (2 pair) up to 328 ft (100 m)
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 7825-I1 is not qualified for use with Cisco Unity voice cards for traditional PBX integrations.	
Interfaces	
Serial ports	1 RS-232D
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 SCSI port	None
Security	

Features	Descriptions
• Power-on password • Keyboard password • Diskette-drive control • Disk-boot control • Administrator's password • Removable DVD-ROM and disk-drive assembly	
Power	
Maximum input power	300 W
Auto-ranging AC input	Yes
PFC	Yes
Input frequency range	47–63 Hz
Operational input voltage ranges	• 90–139 VAC minimum • 180–264 VAC maximum
Input current	• 3.0 A (110 VAC) • 1.5 A (220 VAC)
Environmental	
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% (non-condensing)
Humidity—Server off	8 to 80%
BTU rating	853 BTU/hr (per 250W maximum configuration)
Sound emissions, idle	6.5 BELS (operating)
Cooling system	6 fans installed
Dimensions	
Form factor	Rack-mount 1RU
Rack-mounting	Included for standard third-party rack
Weight—Maximum	28.0 lb (12.7 kg)
Height	1.75 in. (4.37 cm)
Width	16.69 in. (43.0 cm)
Depth	20.0 in. (50.8 cm)

ORDERING INFORMATION

To place an order, visit the Cisco Ordering Home Page. Table 2 gives the part number for ordering the Cisco Unity Unified Messaging system.

Table 2.   Ordering Information for Cisco Applications

Product Name	Part Number
Cisco CallManager 3.3	CALLMANAGER-3.3
Cisco CallManager 4.0	CALLMANAGER-4.0
Cisco CallManager 4.1	CALLMANAGER-4.1
Cisco Emergency Responder	CER-1.2

Product Name	Part Number
Cisco ICM Enterprise	ICM-BUNDLE
Cisco ICM Hosted	HOSTED-BUNDLE
Cisco IPCC Enterprise	IPCE-BUNDLE
Cisco IPCC Hosted	HOSTED-BUNDLE
Cisco IPCC Express	PCX-3.Y-STANDARD. PCX-3.Y-ENHANCED, PCX-3.Y-PREMIUM
Cisco IP IVR	IPIVR-3.5=
Cisco Personal Assistant	PASR-BUNDLE
Cisco Queue Manager	IPQM-3.5=
Cisco Unity Unified Messaging System	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-I1-IPC1
Cisco Emergency Responder	MCS-7825-I1-IPC1
Cisco ICM Enterprise	MCS-7825-I1-CC1
Cisco ICM Hosted	MCS-7825-I1-CC1
Cisco IPCC Enterprise	MCS-7825-I1-CC1
Cisco IPCC Hosted	MCS-7825-I1-CC1
Cisco IPCC Express	MCS-7825-I1-CC1
Cisco IP IVR	MCS-7825-I1-CC1
Cisco MeetingPlace	MCS-7825-I1-IPC1
Cisco Queue Manager	MCS-7825-I1-CC1
Cisco Unity Unified Messaging System	MCS-7825-I1-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-I1-512=	Spare 512 MB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-I1 server
MEM-7825-I1-1GB=	Spare Pair 1 GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7825-I1 server
HDD-7825-I1-80=	Spare 80 GB SATA hard-disk drive, cold-pluggable

IDENTIFYING SERVER CPU SPEED

As the Cisco MCS 7825-I1 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 that is shown on the chassis to help identify any 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	74-3528-01	Initial production of server: • MCS-7825-I1-ECS1
Intel Pentium 4 3.4 GHz Processor	74-3909-01	Initial production of server: • MCS-7825-I1-IPC1 • MCS-7825-I1-CC1

SERVICE AND SUPPORT

Cisco Systems® 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 the 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.

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