Cisco MCS 7816-I3 Unified Communications Manager Appliance

Cisco Unified Communications Solutions unify voice, video, data, and mobile applications on fixed and mobile networks enabling easy collaboration every time from any workspace.

Product Overview

The Cisco MCS 7816-I3 Unified Communications Manager Appliance is an integral part of a complete entry-level architecture for a new generation of high-quality unified communications solutions that operate on enterprise data networks. This powerful platform is a solution that is easy to deploy and highly cost-effective, and it delivers the high performance and availability that today's enterprise networks demand. The server appliance is preinstalled with an operating system and the Cisco Unified Communications Manager application. Formerly known as Cisco Unified CallManager, Cisco Unified Communications Manager is fully operational upon startup, requiring entry of just a few configuration variables such as IP address and domain.

Key Features and Benefits

Performance

The Cisco MCS 7816-I3 is a robust, highly available server platform designed to support today's unified communications applications. It uses a single Intel Celeron D 352, 3.2-GHz processor with a 533-MHz front-side bus (FSB).

Serviceability

Serviceable SATA Disk Drives
The Cisco MCS 7816-I3 is configured with one 160-GB Serial Advanced Technology Attachment (SATA) "cold-pluggable" disk drive, which is accessible through openings in the front bezel of the server. If a drive fails, you 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 7816-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 7816-I3 server.

Product Specifications

Tables 1 and 2 give specifications of the Cisco MCS 7816-I3.

Table 1.   Product Specifications

Component	Value
Product part number	MCS7816I3-K9-CMC1
Preload	Cisco Unified Communications Manager 7.0

OS	Included
Processor	Single Intel Celeron D 352
Memory	2-GB (two 1-GB) PC2-5300 error-correcting code (ECC) double-data-rate 2 (DDR2)
Hard disks	One 160-GB SATA 2.5-inch cold-swap drive
Remote management	IBM Remote Supervisor Adapter (RSA) II Slimline: Supported but not included

Component	Value
Product part number	MCS7816I3-K9-CMB2
Preload	Cisco Unified Communications Manager 6.1
OS	Included
Processor	Single Intel Celeron D 352
Memory	2-GB (two 1-GB) PC2-5300 ECC DDR2
Hard disks	One 160-GB SATA 2.5-inch cold-swap drive
Remote management	IBM RSA II Slimline: Supported but not included

Component	Value
Product part number	MCS7816I3-K9-CMB1
Preload	Cisco Unified Communications Manager 6.0
OS	Included
Processor	Single Intel Celeron D 352
Memory	2-GB (two 1-GB) PC2-5300 ECC DDR2
Hard disks	One 160-GB SATA 2.5-inch cold-swap drive
Remote management	IBM RSA II Slimline: Supported but not included

Component	Value
Product ID	MCS7816I3-K9-CMA2
Preload	Cisco Unified Communications Manager 5.1
OS	Included
Processor	Single Intel Celeron D 352
Memory	2-GB (two 1-GB) PC2-5300 ECC DDR2
Hard disks	One 160-GB SATA 2.5-inch cold-swap drive
Remote management	IBM RSA II Slimline: Supported but not included

Table 2. Specifications of Cisco MCS 7816-I3

Processor at Product Introduction	
Maximum processors	1
Processors installed	1
Basic input/output system (BIOS) type	Flash memory
Memory	
Memory maximum	8 GB
Memory bus clock	667 MHz
Memory technology	PC2-5300 667 MHz DDR2 synchronous dynamic RAM (SDRAM)
Bit-error mitigation	ECC

Total RAM slots	4
Redundant Array of Independent Disks (RAID) Controller	
Controller model	None
Hard disk	
Data-transfer rate (burst)	150 MB per second
Hard disk average seek time	9 ms
Hard disk interface type	SATA
Cold-swappable bays	2
Network Connectivity	
Ethernet network interface card (NIC)	Dual onboard 10/100/1000
Ethernet connectors	2 RJ-45 connectors on rear 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)
Interface Port Specifications	
Video Graphics Array (VGA) ports	1
Serial ports	1
Parallel ports	0
Universal-serial-bus (USB) 2.0 ports	4
Keyboard port	1
Mouse port	1
Audio ports	None
System management ports	None
Security	
• Power-on and privileged access password functions that control who has access to the data and server setup program on the server • A selectable boot sequence that can prevent unauthorized installation of software or removal of data from the diskette drive	
Expansion Options	
8x PCI-Express full height, three-quarter length	1
8x PCI-Express low profile, half length	1
Power	
Power-supply output power	351W
Input requirements (per power supply): Rated line voltage	100 to 127 VAC and 200 to 240 VAC
Rated input current	6A (100 VAC), 6A (120 VAC), and 3A (200 VAC)
Rated input frequency	50 to 60 Hz
Environmental	
Air temperature: Server on	50 to 95℉ (10 to 35℃) at 0 to 3000 ft (0 to 914.4 m) 50 to 89.6℉ (10 to 32℃) at 3000 to 6998 ft (914.4 to 2133m)
Air temperature: Server off	50 to 109.4℉ (10 to 43℃)
Humidity: Server on	8 to 80% (noncondensing)
Maximum altitude	7000 ft (2133m)
BTU rating (maximum)	1048/hr
Sound emissions, idle	6.5 bels (operating)
Dimensions	
Form factor	Rack-mount 1 rack unit (1RU)

Weight: Maximum	28.0 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* - CSA C22.2 No. 60950-1-03 - NOM-01913 *This server model is certified by the respective UL and NOM agencies.	

Ordering Information

To order this product, visit the [Cisco Ordering Home Page and refer to Tables 2 and 3](#).

You can order the appliance in one of two ways. You can enter UNIFIED-CM-7.0 or UNIFIED-CM-6.1 or UNIFIED_CM_6.0 or CALLMANAGER-5.1 into the Dynamic Configuration tool on Cisco.com and you will view a list of Cisco Unified Communications Manager Appliances and their associated licenses. You can also order the components individually using the following part numbers:

- MCS7816I3-K9-CMC1 (preloaded with Cisco Unified Communications Manager 7.0)
- MCS7816I3-K9-CMB2 (preloaded with Cisco Unified Communications Manager 6.1)
- MCS7816I3-K9-CMB1 (preloaded with Cisco Unified Communications Manager 6.0)
- MCS7816I3-K9-CMA2 (preloaded with Cisco Unified Communications Manager 5.1)
- LIC-CM7.0-7816=
- LIC-CM6.0-7816=
- LIC-CM5.1-7816=
- KEY-CCM-ADMIN-K9= (order a minimum quantity of 2)
- DAT-USB-EXT-72= (optional external USB DAT tape drive)
- DAT-USB-RM-72= (optional rack-mount USB DAT tape drive)
- DAT-USB-ADPT= (required if DAT-USB-EXT-72= or DAT-USB-RM-72= are used)
- MOH-USB-AUDIO= (USB music-on-hold adapter)

Appliance Spares

To order spare appliances, reference Table 2.

Table 3.　Ordering Information for Spare Appliances

Application	Spare Part Number
Cisco Unified Communications Manager 7.0	MCS7816-I3-K9-CMC1
Cisco Unified Communications Manager 6.1	MCS7816-I3-K9-CMB2
Cisco Unified Communications Manager 6.0	MCS7816-I3-K9-CMB1
Cisco Unified Communications Manager 5.1	MCS7816-I3-K9-CMA2

Field-Replaceable Spares

Table 3 gives ordering information for server spare parts.

Table 4.　Ordering Information for Server Spare Parts

Spare-Part Number	Description
MEM-7816-I3-2GB=	Spare pair 1-GB SDRAM dual in-line memory module (DIMM) for Cisco MCS 7816-I3 server
HDD-7816-I3-160=	Spare 160-GB SATA hard disk drive, cold-pluggable
DAT-USB-EXT-72=	Spare external USB 36-/72-GB DAT drive
DAT-USB-RM-72=	Spare rack-mount USB 36-/73-GB DAT drive

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

Cisco Unified Communications Services allows you to accelerate cost savings and productivity gains associated with deploying a secure, resilient Cisco Unified Communications solution. Delivered by Cisco and our certified partners, our portfolio of services is based on proven methodologies for unifying voice, video, data, and mobile applications on fixed and mobile networks. Our unique lifecycle approach to services enhances your technology experience to accelerate true business advantage.

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