

Cisco MCS 7828-I5 Unified Communications Manager Business Edition 5000 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 7828-I5 Unified Communications Manager Business Edition 5000 is an integral part of a complete, scalable architecture for a new generation of high-quality unified communications solutions that operate on enterprise data networks. A solution that is easy to deploy and highly cost-effective, this powerful platform delivers the high performance and availability that today's enterprise networks demand. The server appliance is preinstalled with an operating system and Cisco Unified Communications Manager Business Edition software. Cisco Unified Communications Manager Business Edition is fully operational upon startup, requiring entry of just a few configuration variables such as IP address and domain.

Features and Benefits

Ease of Installation

The Cisco MCS 7828-I5 Unified Communications Manager Business Edition 5000 Appliance is a high-availability appliance 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 7828-I5 is an easily deployed, cost-effective solution. At only 1 rack unit (1RU) high, it offers tremendous power in a low-profile chassis that minimizes rack space while providing drive redundancy for higher availability.

Table 1 provides information on the components of the Cisco MS 7828-I5, and Table 2 gives information about equipment approvals and safety.

Product Specifications

Table 1. Cisco MCS 7828-I5 Configuration

Component	Value
Product part number	MCS7828I5-K9-WL8 MCS7828I5-K9-BE8
Preload	None
OS included	None
Processor	Single Intel x3430 quad-core 2.40-GHz; last level cache: 8 MB
Memory included	6-GB (two 2-GB DIMMs + two 1-GB DIMM) dual-rank PC3-10600R-999 1333 MHz, fully buffered double data rate 3 (DDR3) registered DIMM (RDIMM)
Memory maximum	32 GB
Memory bus clock	Up to 1333 MHz
Memory technology	Registered PC3-10600 DDR3 1333-MHz dual-rank DIMM
Multibit error itigation	Error Checking and Correcting (ECC)
Total dual in-line memory module (DIMM) slots	Six
Basic input/output system (BIOS) type	United Extensible Firmware Interface (UEFI)

Component	Value	
Hard disks	Two 250-GB Serial Advanced Technology Attachment (SATA) 3.5-in. simple swap	
Simple swap bays	Two	
Hard disk interface type	SATA	
Hard disk spindle speed	7200 rpm (revolutions per minute)	
Hard disk seek time	11.9 ms (average)	
Hard disk latency	4.2 ms (nominal)	
Data transfer rate	Capable of 3 Gbps	
Hard disk form size	3.5-inch small form factor (SFF)	
Redundant Array of Independent Disks (RAID) controller model	IBM ServeRAID BR10i SAS/SATA Controller v2	
RAID interface	Connected to motherboard	
RAID cache	0 MB	
Battery-backed write cache (BBWC)	No	
RAID Level	Configured as a RAID 1	
Ethernet network interface card (NIC)	Dual onboard 10/100/1000	
Ethernet connectors	Two 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, 5 UTP (2 pair) up to 328 ft (100m)	
Serial ports	1	
Parallel ports	0	
USB 2.0 ports	7 (2 front, 4 rear, and 1 internal)	
Keyboard ports	Use one of the USB ports (PS/2 ports are not provided)	
Mouse ports	Use one of the USB ports (PS/2 ports are not provided)	
Audio ports	None	
Video Graphics Array (VGA) ports	One rear	
System management ports	Shared Ethernet port	
8x PCIe non-hot plug slots	Two	
Dimensions (H x W x D)	Height: 1.69 in. (1RU)	Height: 43 mm
	Width: • 17.32 in.	Width: • 440 mm.
	Depth: • Overall: 22 in.	Depth: • Overall: 559 mm
Weight (maximum)	28 lb	12.7 kg
Input requirements ¹	Rated line voltage: 100-127 VAC; 50 or 60 Hz	
	Input current (amps)	0.66 (idle) 1.74 (maximum measured) 6.0 (system rated) 40 (peak inrush current; 4 ms)
	Leakage current (mA)	0.47 (idle; maximum measured; system rated)

¹ Maximum measured values were determined with 77°F (25°C) ambient temperature, and your results may vary. Idle power: Power drawn with the machine(s) logged into the OS and no other applications running. Memory, HDDs, optical drives, and tape drives are not being used. Measured maximum power: Maximum measured power is the power the machine draws with the CPUs 100% used and memory is used 10% more than base usage. The exerciser used is Prime95 (torture test); you can download it at <http://www.mersenne.org> Rated system maximum: The maximum power the machine can draw according to the system label rating.

Component	Value	
	Power (watts)	78 (idle) 200 (maximum measured) 351 (system rated)
	VA rating (VA)	80 (idle) 204 (maximum measured) 351 (system rated)
	BTU rating (BTU/hr)	266 (idle) 681 (maximum measured) 2047 (system rated)
	Rated line voltage: 200-240 VAC; 50 or 60 Hz	
	Input current (amps)	0.37 (idle) 1.02 (maximum measured) 3.0 (system rated) 40 (peak inrush current; 4 ms)
	Leakage current (mA)	0.47 (idle; maximum measured; system rated)
	Power (watts)	76 (idle) 196 (maximum measured) 351 (system rated)
	VA rating (VA)	78 (idle) 201 (maximum measured) 351 (system rated)
	BTU rating (BTU/hr)	259 (idle) 668 (maximum system rated)
Power supply output power	Rated steady-state power	351W
Temperature range	Operating	50 to 95°F (10 to 35°C) at 0-3000 ft (0-914.4m) with an altitude de-rating of 1.4°F (0.75°C) per 1000 ft (304.8m)
	Nonoperating	50 to 109.4°F (10 to 43°C)
	Shipment	-104 to 140°F (-40 to 60°C)
Relative humidity (RH; noncondensing)	Operating	8 to 80%
	Shipment	8 to 80%
Maximum altitude	7000 ft	2133m
Acoustic noise	Operating minimum	L WAd (bels) 6.5
Airflow (cubic feet per minute [cfm])	20 CFM minimum	31 CFM maximum
Remote management	IBM Integrated Management Module included (user-installable Virtual Media Key available) on a shared Ethernet connector	

Table 2. Equipment Approvals and Safety

Equipment Approvals and Safety
<ul style="list-style-type: none"> • FCC - Verified to comply with Part 15 of the FCC Rules, Class A • ICES-003 Class A • AS/NZS CISPR22 Class A • CISPR22 Class A • CISPR24 Class A • EN55022 Class A • EN55024 • IEC 61000-3-2 • IEC 61000-3-3 • KN22 Class A • CNS13438 Class A • GB9254 Class A

Equipment Approvals and Safety

- GB4943
- VCCI-03 Class A
- CSA C22.2 No. 60950-1-07
- UL 60950-1 2nd Edition
- IEC/EN 60950-1 2nd Edition
- CE Mark (Low Voltage Directive 2006/95/EC, EMC Directive 2004/108/EC)
- KN24

Ordering Information

Tables 3 through 5 give ordering information for the Cisco MCS 7828-I5.

Table 3. Ordering Information

Product Name	Part Number
Cisco Unified Communications Manager Business Edition	Please refer to the Ordering Guide for Cisco Unified Communications Manager Business Edition at http://www.cisco.com/web/partners/sell/technology/ipc/uc_tech_readiness.html#~7

Table 4. Spare Appliance Ordering Information

Product Name	Part Number
Cisco MCS 7828-I5 for Cisco Unified Communications Manager Business Edition Appliance	MCS7828I5-K9-WL8 MCS7828I5-K9-BE8 MCS7282-I5-SS1=

Table 5. Spare Parts Ordering Information

Description	Spare Part Number
Spare 2GB DIMM for MCS 7816/25/28-I5	MEM-78xx-I5-2GB=
Spare 1GB DIMM for MCS 7828-I5	MEM-7828-I5-1GB=
Spare 250GB Hard Disk Drive for MCS 7816/25/28-I5	HDD-78xx-I5-250=

Warranty Information

Cisco offers a 1-year limited hardware warranty on our media convergence servers. For terms and conditions of this warranty, refer to http://www.cisco.com/en/US/docs/general/warranty/English/1Y1DEN_.html.

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 can enhance your technology experience to accelerate true business advantage.



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