

Cisco UCS C240 M4 server (UCS-SPR-C240M4-E2)

Rack Mountable, 2U, 2-way, 2x Xeon E5-2620v3 (2.4 GHz), RAM 16 GB, SAS hot-swap 2.5", no HDD, G200e, Gigabit Ethernet, no OS, none Monitor



Price details:

Price excl. VAT: 2,739.84 €

Eco fees: 0.07 €

VAT 21 %: 575.38 €

Product details:

Product code: UCS-SPR-C240M4-E2

EAN: 0882658781612

Manufacturer: Cisco

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3,315.29 €

* VAT included

The Cisco UCS C240 M4 rack server is the 2-socket, 2-rack-unit (2RU) rack server. It offers outstanding performance and expandability for a wide range of storage and I/O-intensive infrastructure workloads, from big data to collaboration. The enterprise-class Cisco UCS C240 M4 server extends the capabilities of the Cisco Unified Computing System (Cisco UCS) portfolio in a 2RU form factor with the addition of the Intel Xeon processor, which delivers a superb combination of performance, flexibility, and efficiency.

- 24 DDR4 DIMMs for improved performance and lower power consumption
- 6 PCI Express (PCIe) 3.0 slots (4 full-height, full-length)
- Support for 12-Gbps SAS drives
- A modular LAN-on-motherboard (mLOM) slot for installing a next-generation Cisco virtual interface card (VIC) or third-party network interface card (NIC) without consuming a PCIe slot
- 2 x 1 Gigabit Ethernet embedded LOM ports
- Supports two double-wide NVIDIA graphics processing units (GPUs), providing a graphics-rich experience to more virtual users
- Excellent reliability, availability, and serviceability (RAS) features with tool-free CPU insertion, easy-to-use latching lid, hot-swappable and hot-pluggable components

2133-MHz DDR4 memory

24 slots for registered DIMMs (RDIMMs) or load-reduced DIMMs (LRDIMMs) that deliver significant improvement in application performance: the Cisco UCS C220 M4 server supports 3 DIMMs per channel at 1866-MHz speeds with LRDIMMs.

2 Intel Xeon processor CPUs

The Intel Xeon processor is designed to deliver the best combination of performance, built-in capabilities, and cost-effectiveness.

Support for 6 PCIe 3.0 slots, 4 of which are full-height, full-length

Flexibility, increased performance, and compatibility with industry standards; substantially increased bandwidth compared to the previous generation, with more flexibility and backward compatibility with PCIe 2.0; greater I/O performance and flexibility.

Support for an mLOM slot

The Cisco UCS C220 M4, the mLOM slot can be used to install a Cisco VIC or third-party NIC without consuming a PCIe slot, providing greater I/O expandability.

40-Gbps unified network fabric

Low-latency, lossless, 40-Gbps Ethernet and industry-standard FCoE and native fiber channel fabric; wire-once deployment model: changing I/O configurations no longer requires installing adapters and recabling racks and switches; fewer interface cards, cables, and upstream network ports to purchase, power, configure, and maintain.

Virtualization optimization

Cisco Data Center Virtual Machine Fabric Extender (VM-FEX) and adapter-FEX technologies, I/O virtualization, and Intel Xeon processor features, extending the network directly to virtual machines; consistent and scalable operational model; increased security and efficiency with reduced complexity; capability to move virtual machine security features and policies from rack to rack or rack to blades.

Unified management

It can be deployed as a standalone server or in a UCS-managed environment. When combined with Cisco UCS, the entire solution can be managed as a single entity with Cisco UCS Manager, improving operational efficiency and flexibility; service profiles and templates that implement role- and policy-based management, enabling more effective use of skilled server, network, and storage administrators. Automated provisioning and increased business agility, allow data center managers to provision applications in minutes rather than days by associating a service profile with an added or repurposed Cisco UCS C220 M4 server. It has capability to move service profiles from rack server to another rack server, blade to rack server, or rack to blade server in minutes instead of hours or days.

Cisco 12-Gbps SAS modular RAID controller

Cisco 12Gbps modular RAID PCIe Gen 3.0 controller provides enterprise-class data protection. RAID card is plugged into a dedicated PCIe slot, leaving the two remaining PCIe slots available for other I/O expansion cards.

Cisco Integrated Management Controller (IMC)

Web user-interface for server management; remote keyboard, video, and mouse (KVM); virtual media; and administration; virtual media support for remote CD and DVD drives as if local; Intelligent Platform Management Interface (IPMI) 2.0 support for out-of-band management through third-party enterprise management systems; command-line interface (CLI) for server management; provides UCS visibility and control to management ecosystem partners using a comprehensive XML API.

Advanced reliability, availability, and serviceability (RAS) features

Dual-redundant fans and hot-swappable, redundant power supplies for enterprise-class reliability and uptime; convenient latching lid for easy access to internal server; tool-free CPU insertion allows for processor upgrades and replacements with reduced risk of damage; tool-free access to all serviceable items, and color-coded indicators to guide users to hot-pluggable and serviceable items.

Security features

Trusted Platform Module (TPM) is a chip (microcontroller) that can securely store artifacts used to authenticate the platform (server). These artifacts can include passwords, certificates, or encryption keys. TPM 1.2 SPI-based module is supported. Locking bezel option can be mounted to the front of the chassis to protect against unauthorized access to the drives.

Main specifications:

Processor

Processor frequency:	2.4 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-2620V3
Processor cores:	6
Number of processors installed:	2
Processor cache type:	Smart Cache
Processor cache:	15 MB
System bus rate:	8 GT/s
Processor manufacturer:	Intel
Processor socket:	LGA 2011-v3
Motherboard chipset:	Intel C610
Supported processor sockets:	LGA 2011-v3 (Socket R)
Processor boost frequency:	3.2 GHz
Processor lithography:	22 nm
Processor threads:	12
Processor operating modes:	64-bit
Stepping:	R2
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	72.6 °C
Maximum internal memory supported by processor:	768 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600, 1866 MHz
Memory bandwidth supported by processor (max):	59 GB/s
Memory channels supported by processor:	Quad
ECC supported by processor:	Y
Execute Disable Bit:	Y

Idle States:	Y
Thermal Monitoring Technologies:	Y
Maximum number of PCI Express lanes:	40
PCI Express configurations:	x4, x8, x16
Processor package size:	52.5 mm
Supported instruction sets:	AVX
Processor code:	SR207
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	Y
Thermal Design Power (TDP):	85 W
Processor series:	Intel Xeon E5-2600 v3
Conflict Free processor:	N
Memory	
Internal memory:	16 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	384 GB
Memory slots:	24
Memory clock speed:	2133 MHz
ECC:	Y
Storage	
RAID support:	Y
RAID levels:	0,1,5,6,10,50,60
Hot-swap:	Y
Graphics	
Maximum graphics adapter memory:	8 MB
Networking	
Ethernet LAN:	Y
LAN controller:	Intel I350
Cabling technology:	10/100/1000Base-T(X)
Ethernet interface type:	Fast Ethernet,Gigabit Ethernet
Ports & interfaces	
VGA (D-Sub) ports quantity:	1
Ethernet LAN (RJ-45) ports:	4
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	2
KVM switch ports quantity:	1
Expansion slots	
PCI Express slots version:	3.0
Design	
Chassis type:	Rack (2U)
Optical drive type:	N
Rack mounting:	Y
Performance	
Operating system installed:	N
Compatible operating systems:	Microsoft Windows Server 2012 R2Microsoft Windows Server 2012Microsoft Windows Server 2008 R2Red Hat Enterprise LinuxNovell SUSE Linux Enterprise ServerOracle LinuxOracle SolarisUbuntu ServerCentOS
Trusted Platform Module (TPM):	Y
Trusted Platform Module (TPM) version:	1.2
Processor special features	
CPU configuration (max):	2
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	N
Intel® Wireless Display (Intel® WiDi):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Anti-Theft Technology (Intel® AT):	N
Intel® Hyper Threading Technology (Intel® HTTechnology):	Y
Intel® My WiFi Technology (Intel® MWT):	N
Intel® Turbo Boost Technology:	2.0
Intel® vPro™ Technology:	Y

Intel® Quick Sync Video Technology:	N
Intel® InTru™ 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel® Insider™:	N
Intel Flex Memory Access:	N
Intel® Smart Cache:	Y
Intel® AES New Instructions (Intel® AES-NI):	Y
Intel Trusted Execution Technology:	Y
Intel Enhanced Halt State:	Y
Intel VT-x with Extended Page Tables (EPT):	Y
Intel Demand Based Switching:	Y
Intel® Secure Key:	Y
Intel TSX-NI:	N
Intel® OS Guard:	Y
Intel Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
Intel 64:	Y
Intel Identity Protection Technology version:	0.00
Intel Secure Key Technology version:	1.00
Intel Virtualization Technology (VT-x):	Y
Intel TSX-NI version:	0.00
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	N
Intel Fast Memory Access:	N
Processor ARK ID:	83352

Power

Redundant power supply (RPS) support:	Y
Power supply input frequency:	50 - 60 Hz

Weight & dimensions

Width:	448 mm
Depth:	738 mm
Height:	87 mm

Technical details

Integrated LAN:	Y
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Other features

Graphics adapter:	G200e
Graphics adapter family:	Matrox
Intel® Virtualization Technology (Intel® VT):	VT-d,VT-x