

Cisco UCS B200 M3 server (UCS-EZ-ENTV-B200M3)

Server, Blade, 2-way, 2x Xeon E5-2650, 2 GHz, RAM 128 GB, SAS, 6.35 cm (2.5 ") , no HDD, 10 Gigabit Ethernet



Price details:

Price excl. VAT: 5,783.72 €

Eco fees: 0.08 €

VAT 21 %: 1,214.60 €

Product details:

Product code: UCS-EZ-ENTV-B200M3

EAN: 0882658583841

Manufacturer: Cisco

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6,998.40 €

* VAT included

The Cisco Unified Computing System (Cisco UCS) combines Cisco UCS B-Series Blade Servers and C-Series Rack Servers with networking and storage access in a single converged system that simplifies management and delivers greater cost efficiency and agility with increased visibility and control. The Cisco UCS B200 M3 Blade Server delivers performance, versatility, and density without compromise. It addresses the broadest set of workloads, from IT and web infrastructure, through distributed database. The enterprise-class Cisco UCS B200 M3 Blade Server further extends the capabilities of the Cisco UCS portfolio in a half-width blade form factor. The Cisco UCS B200 M3 harnesses the power of the latest Intel Xeon processor E5-2600 and E5-2600 v2 product families, with up to 768 GB of RAM (using 32-GB DIMMs), two disk drives, and up to dual 4x 10 Gigabit Ethernet throughput. In addition, Cisco UCS has the architectural advantage of not having to power and cool excess switches in each blade chassis. With a larger power budget per blade server, Cisco can design uncompromised expandability and capabilities in its blade servers, as evidenced by the new Cisco UCS B200 M3, with its leading memory slot and drive capacity.

The Cisco UCS B200 M3 provides:

- One or two, multi-core, Intel Xeon processor E5-2600 and E5-2600 v2 product families CPUs, for up to 24 processing cores
- 24 DIMM slots for industry-standard double-data-rate 3 (DDR3) memory running up to 1866 MHz and up to 768 GB of total memory (using 32-GB DIMMs)
- Two optional, hot-pluggable SAS or SATA hard disk drives (HDDs) or solid-state drives (SSDs)
- Industry-leading 80 Gbps throughput bandwidth
- Remote management through a Cisco Integrated Management Controller (CIMC) that implements policy established in Cisco UCS Manager
- Out-of-band access by remote keyboard, video, and mouse (KVM) device, Secure Shell (SSH) Protocol, and virtual media (vMedia) as well as the Intelligent Platform Management Interface (IPMI)

In addition, the Cisco UCS B200 M3 is a half-width blade (Figure 1). Up to eight of these high-density, two-socket blade servers can reside in the 6RU Cisco UCS 5108 Blade Server Chassis, offering one of the highest densities of servers per rack unit in the industry.

Another Cisco innovation, the Cisco UCS Virtual Interface Card (VIC) 1240 is a 4-port 10 Gigabit Ethernet, Fibre Channel over Ethernet (FCoE)-capable modular LAN on motherboard (LOM) designed exclusively for the M3 generation of Cisco UCS B-Series Blade Servers. When used in combination with an optional I/O expander, the Cisco UCS VIC 1240 capabilities can be expanded up to eight ports of 10 Gigabit Ethernet. The Cisco UCS VIC 1240 enables a policy-based, stateless, agile server infrastructure that can present up to 256 PCI Express (PCIe) standards-compliant interfaces to the host that can be dynamically configured as either network interface cards (NICs) or host bus adapters (HBAs). In addition, the Cisco UCS VIC 1240 supports Cisco® Data Center Virtual Machine Fabric Extender (VM-FEX) technology, which extends the Cisco UCS fabric interconnect ports to virtual machines, simplifying server virtualization deployment.

The Cisco UCS B200 M3 Blade Server continues Cisco's commitment to delivering uniquely differentiated value, fabric integration, and ease of management that is exceptional in the marketplace. The Cisco UCS B200 M3 further extends the capabilities of Cisco UCS by delivering new levels of manageability, performance, energy efficiency, reliability, security, and I/O bandwidth for enterprise-class applications:

Applications

The Cisco UCS B200 M3 is suited for a broad range of IT workloads:

- Virtualized workloads
- IT and web infrastructure
- Virtual desktops
- Databases
- Middleware
- Enterprise resource planning (ERP) and customer relationship management (CRM) applications

Cisco UCS Servers Change the Economics of the Data Center

IT infrastructure matters now more than ever, as organizations seek to achieve the full potential of infrastructure as a service (IaaS), bare metal, virtualized servers, and cloud computing. Cisco continues to lead in Data Center innovation with the introduction of new building blocks for the Cisco Unified Computing System that extend its exceptional simplicity, agility, and efficiency (Figure 2). Innovations such as the Cisco UCS B200 M3 Blade Server bring even better industry-leading performance from IT infrastructure to enterprise applications.

Cisco innovations, such as the Cisco UCS Manager software, allow administrators to create a software model of a desired server (using Cisco service profiles and templates) and then instantiate that server and its I/O connectivity by associating a model with physical resources. This approach contrasts with the traditional approach of configuring each system resource manually, one at a time, through individual element managers. Unlike legacy vendors of traditional systems, Cisco uses a unified management model with service profiles that can be moved easily between any Cisco UCS servers - whether blade server or rack server - in a Cisco UCS Manager domain.

Other Cisco UCS building blocks include new Cisco UCS VIC options, expanded Cisco UCS fabric interconnects, and additional fabric extender options that expand throughput and management simplicity for both blade and rack servers across bare-metal, virtualized, and cloud environments. Cisco UCS also provides investment protection. For example, fabric extenders can be upgraded in the same Cisco UCS 5108 Server Chassis using the same fabric interconnects. Fabric interconnects can be upgraded independently of fabric extenders and blade servers within the chassis. The Cisco UCS 5108 Chassis high-performance midplane provides 8 blades with 1.2 terabits (Tb) of available Ethernet throughput for future blade and I/O requirements. In addition, Cisco continues to innovate in all these areas, helping ensure that newer, more powerful blade servers have matching I/O bandwidth and computing power through continuous innovation across the Cisco UCS environment.

The Cisco UCS B200 M3 is also part of a large family of blade servers: the Cisco B-Series Blade Servers. Designed to operate as part of Cisco UCS, the Cisco UCS B-Series servers employ many innovative Cisco technologies to help customers handle the most challenging workloads. Cisco UCS B-Series servers operating in a Cisco UCS management framework incorporate a standards-based unified network fabric, Cisco VM-FEX virtualization support, Cisco UCS Manager software, Cisco fabric extender architecture, and Cisco Extended Memory Technology. Again, Cisco is innovating across all these technologies. Together, these Cisco UCS architectural advantages and Cisco's software advances, Cisco's continuous innovation, and unique blade server and chassis designs combine to make Cisco UCS the first truly unified data center platform. In addition, Cisco UCS can transform IT organizations through policy-based automation and deep integration with familiar systems management and orchestration tools.

Main specifications:

Processor

Processor frequency:	2 GHz
Processor family:	Intel Xeon E5
Processor model:	E5-2650
Processor cores:	8
Number of processors installed:	2
Processor cache type:	Smart Cache
Processor cache:	20 MB
System bus rate:	8 GT/s
Processor socket:	LGA 2011 (Socket R)
Processor boost frequency:	2.8 GHz
Processor lithography:	32 nm
Processor threads:	16
Processor operating modes:	64-bit
Stepping:	C2
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Sandy Bridge EP
Tcase:	77.4 °C
Maximum internal memory supported by processor:	750GB

Memory types supported by processor:	DDR3-SDRAM
Memory clock speeds supported by processor:	800,1066,1333,1600 MHz
Memory bandwidth supported by processor (max):	51.2 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
Scalability:	2S
Physical Address Extension (PAE):	46 bit
Embedded options available:	N
Graphics & IMC lithography:	32 nm
Thermal Design Power (TDP):	95 W
CPU multiplier (bus/core ratio):	28
Processor series:	Intel Xeon E5-2600
Conflict Free processor:	N

Memory

Internal memory:	128 GB
Internal memory type:	DDR3-SDRAM
Maximum internal memory:	768 GB
Memory slots:	24
ECC:	Y

Storage

Total storage capacity:	16 GB
Number of hard drives installed:	2
RAID support:	N
Maximum storage capacity:	2 TB

Networking

Ethernet LAN:	Y
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Expansion slots

PCI Express slots version:	3.0
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Design

Chassis type:	Blade
Optical drive type:	N

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® HT Technology):	Y
Intel® My WiFi Technology (Intel® MWT):	N
Intel® Turbo Boost Technology:	Y
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:	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 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:	64590

Power

Number of main power supplies:	1
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Operational conditions

Operating temperature (T-T):	10 - 35 °C
Storage temperature (T-T):	-40 - 65 °C
Operating relative humidity (H-H):	5 - 93 %
Storage relative humidity (H-H):	5 - 93 %
Operating altitude:	0 - 3000 m
Non-operating altitude:	0 - 12000 m