

Cisco UCS B22 M3 server (UCS-EZ-ENTS-B22M3)

Entry Smart Play, Server Blade, 2-way, 2x Xeon E5-2420, 1.9 GHz, RAM 48 GB, SAS, Hot-Swap 2.5", 10 Gigabit Ethernet



Price details:

Price excl. VAT: 2,565.05 €

Eco fees: 0.07 €

VAT 21 %: 538.68 €

Product details:

Product code: UCS-EZ-ENTS-B22M3

EAN: 0882658583872

Manufacturer: Cisco

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3,103.80 €

* 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 latest server expansion of the Cisco UCS portfolio includes the new Cisco UCS B22 M3 Server. This new server increases compute density through more cores and cache balanced with more memory capacity and drives and faster I/O. Together these server improvements and complementary Cisco UCS system advancements deliver the best combination of features and cost efficiency to support IT's diverse needs.

The Cisco UCS B22 M3 Blade Server delivers a feature set with a balanced price-to-performance ratio to help enable quick deployment of scalable IT infrastructure and Web 2.0 applications. The Cisco UCS B22 M3 harnesses the power of the latest Intel Xeon processor E5-2400 and E5-2400 v2 product family with expandability to 384 GB of RAM (using 32-GB DIMMs), two hot-pluggable drives, two PCI Express (PCIe) mezzanine slots, and up to eight 10Gigabit throughput connections. In addition, Cisco delivers the architectural advantage of not having to power and cool excess switches in each Cisco UCS blade chassis. Having a larger power budget per blade server enables Cisco to design uncompromised expandability and versatility in its blade servers, as evidenced by the dense and price-to-performance-optimized Cisco UCS blade servers, with their leading memory slot and drive capacities.

The Cisco UCS B22 M3 provides:

- Two, multi-core, Intel Xeon processor E5-2400 and E5-2400 v2 product family CPU sockets, for up to 20 processing cores
- 12 DIMM slots for industry-standard double-data-rate 3 (DDR3) memory running up to 1600 MHz and up to 384 GB of total memory
- Two optional, hot-pluggable SAS or SATA hard disk drives (HDDs) or solid-state drives (SSDs)
- Built-in Cisco Integrated Management Controller (CIMC) GUI or CLI interfaces enables one to monitor the server inventory, health, and system event logs

The Cisco UCS B22 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.

The Cisco UCS VIC 1240 enables a policy-based, stateless, agile server infrastructure that can present up to 256 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 B22 M3 further extends the capabilities of Cisco UCS by delivering new levels of manageability, price-to-performance metrics, energy efficiency, reliability, security, and I/O bandwidth for enterprise-class applications.

Applications

- The Cisco UCS B22 M3 is suited for a broad range of IT workloads:
- Web infrastructure
- IT infrastructure
- Scale-out
- Distributed applications
- Workloads that require balanced price-to-performance metrics

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 like the Cisco UCS B22 M3 Blade Server, which extends the exceptional simplicity, agility, and efficiency of Cisco UCS (Figure 2). The Cisco UCS B22 M3 server continues Cisco's commitment to delivery of uniquely differentiated value, fabric integration, and ease of management that is exceptional in the marketplace.

For example, Cisco innovations, such as the form-factor-agnostic 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 stateless approach contrasts with the traditional method of configuring each system resource manually, one at a time, through individual element managers. Unlike 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 increase throughput, investment protection, and management simplicity for both blade and rack servers. Here are a few examples of investment protection:

- 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 eight blades with 1.2 terabits per second (Tbs) 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 B22 M3 is also part of a large family of blade servers: the Cisco UCS B-Series Blade Servers. 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 Data Center VM-FEX virtualization support
- Cisco UCS Manager software
- Cisco Fabric Extender architecture
- Cisco Extended Memory Technology

Again, Cisco is innovating across all these technologies. Together, these Cisco UCS architectural advantages and Cisco's software advances, 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 departments through policy-based automation and deep integration with familiar systems management and orchestration tools.

Main specifications:

Processor

| | |
|---------------------------------|----------------------|
| Processor frequency: | 1.9 GHz |
| Processor family: | Intel Xeon E5 |
| Processor model: | E5-2420 |
| Processor cores: | 6 |
| Number of processors installed: | 2 |
| Processor cache type: | Smart Cache |
| Processor cache: | 15 MB |
| System bus rate: | 7.2 GT/s |
| Processor socket: | LGA 1356 (Socket B2) |
| Processor boost frequency: | 2.4 GHz |
| Processor lithography: | 32 nm |
| Processor threads: | 12 |
| Processor operating modes: | 64-bit |
| Stepping: | C2 |

| | |
|---|--------------------|
| FSB Parity: | N |
| Bus type: | QPI |
| Number of QPI links: | 1 |
| Processor codename: | Sandy Bridge EN |
| Maximum internal memory supported by processor: | 375 GB |
| Memory types supported by processor: | DDR3-SDRAM |
| Memory clock speeds supported by processor: | 800,1066,1333 MHz |
| Memory bandwidth supported by processor (max): | 32 GB/s |
| Memory channels supported by processor: | Triple |
| ECC supported by processor: | Y |
| Execute Disable Bit: | Y |
| Idle States: | Y |
| Thermal Monitoring Technologies: | Y |
| Maximum number of PCI Express lanes: | 24 |
| Processor package size: | 45 mm |
| Supported instruction sets: | AVX |
| Processor code: | SR0LN |
| Scalability: | S2S |
| Embedded options available: | N |
| Thermal Design Power (TDP): | 95 W |
| Processor series: | Intel Xeon E5-2400 |
| Conflict Free processor: | N |

Memory

| | |
|--------------------------|------------|
| Internal memory: | 48 GB |
| Internal memory type: | DDR3-SDRAM |
| Maximum internal memory: | 384 GB |
| Memory slots: | 12 |
| Memory clock speed: | 1600 MHz |
| Flash memory: | 16 MB |

Storage

| | |
|---------------------------|-------|
| Hard drive size: | 2.5 " |
| RAID support: | Y |
| Maximum storage capacity: | 2 TB |
| RAID levels: | 0,1 |

Networking

| | |
|---------------|---|
| Ethernet LAN: | Y |
|---------------|---|

Expansion slots

| | |
|----------------------------|-----|
| PCI Express slots version: | 3.0 |
|----------------------------|-----|

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® 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® Technology: | N |
| Intel Flex Memory Access: | Y |
| 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 Clear Video Technology: | N |

Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):

| | |
|---|-------|
| Intel 64: | Y |
| Intel Identity Protection Technology version: | 0.00 |
| Intel Virtualization Technology (VT-x): | Y |
| Intel Dual Display Capable Technology: | N |
| Intel FDI Technology: | N |
| Intel Fast Memory Access: | N |
| Processor ARK ID: | 64617 |

Operational conditions

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|------------------------------------|-------------|
| 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 |

Certificates

| | |
|----------------|--|
| Safety: | UL 60950-1 No. 21CFR1040, CAN/CSA-C22.2 No. 60950-1, IEC 60950-1, EN 60950-1, IEC 60950-1, AS/NZS 60950-1, GB4943 2001 |
| Certification: | 47CFR Part 15 (CFR 47), AS/NZS CISPR22, CISPR2 2, EN55022, ICES003, VCCI, EN61000-3-2, EN61000-3-3, KN22, CNS13438, EN55024, CISPR24, EN300386, KN24 |

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