Ucs c240 m4 spec sheet

UCS C240 M4 Spec Sheet: An In-Depth Overview of This Enterprise-Grade Server **ucs c240 m4 spec sheet** provides a comprehensive overview of one of the most reliable and versatile rack servers designed for enterprise environments. Known for its robust performance, scalability, and extensive configuration options, the UCS C240 M4 serves as an ideal solution for data centers, virtualization, database management, and high-performance computing. In this article, we delve into the detailed specifications, key features, and capabilities of the UCS C240 M4, helping IT professionals and system administrators understand why it remains a top choice in enterprise server solutions. Overview of the UCS C240 M4 Server The Cisco UCS C240 M4 is a high-density, dual-socket server built to deliver powerful processing capabilities combined with extensive storage options. It is part of Cisco’s Unified Computing System lineup, integrating computing, networking, and storage access into a single platform optimized for demanding workloads. Key Highlights of the UCS C240 M4 - Dual Intel Xeon

E5-2600 v3/v4 processors - Support for up to 24 DIMMs for maximum memory capacity - Flexible storage configurations with up to 14 drive bays - Multiple network interface options - Advanced management features with Cisco UCS Manager - Scalability and redundancy features for mission-critical operations Technical Specifications of UCS C240 M4 The UCS C240 M4's specifications are designed to meet and exceed enterprise requirements for performance, reliability, and flexibility. Below is a detailed breakdown of its technical specs. Processor Options The server supports dual Intel Xeon E5-2600 v3 or v4 family processors, offering: - Up to 22 cores per processor - Hyper-threading technology for improved multitasking - Support for Intel Turbo Boost technology for dynamic frequency scaling - Compatibility with Intel Advanced Vector Extensions (AVX) for high-performance computing Memory Configuration Memory capacity is a significant factor in server performance, and the UCS C240 M4 offers: - Up to 24 DDR4 DIMM slots - Maximum RAM capacity of 768GB using 32GB DIMMs - Support for RDIMMs and LRDIMMs - Memory speeds up to 2133 MHz (with v4 processors) Storage Capabilities Designed for flexible and scalable storage configurations, the server includes: - Up to 14 hot-swappable drive bays -

Support for SAS, SATA, and NVMe drives - Drive bay configurations including: - 8 x 2.5-inch hot-swappable SAS/SATA drives - 8 x 2.5-inch hot-swappable NVMe drives (optional) - 4 x 3.5-inch hot-swappable drives (with optional backplanes) - Support for RAID configurations via integrated controllers Storage Controllers and Expansion - Embedded LSI MegaRAID controllers (e.g., SAS 9271-8i) - Support for PCIe expansion cards for additional storage or network interfaces - Multiple PCIe 3.0 slots for GPUs, network adapters, or storage controllers Networking The server provides flexible networking options, including: - Built-in Gigabit Ethernet ports - Optional 10GbE or 25GbE network cards - Support for Cisco UCS Virtual Interface Cards (VICs) - Multiple network port configurations for redundancy and load balancing Power Supply and Redundancy Reliability is enhanced through: - Dual hot-swappable power supplies, each rated at 750W or higher - Power redundancy to ensure uptime - Optional high-efficiency (80 PLUS Platinum) power supplies Management Features The UCS C240 M4 comes equipped with advanced management capabilities such as: - Cisco UCS Manager for centralized management - Out-of-band management via dedicated CIMC (Cisco Integrated Management Controller) - Support for remote firmware upgrades

and system monitoring - Hardware health monitoring and alerting Physical Dimensions and Form Factor The server adheres to standard rack-mount specifications: - Form factor: 2U rack server - Dimensions: approximately 3.44 inches in height, 17.2 inches deep, and 19 inches wide - Weight varies depending on configuration but generally around 40-50 lbs Key Features and Benefits High Performance for Enterprise Workloads Thanks to dual Xeon processors and extensive memory support, the UCS C240 M4 delivers exceptional performance for: - Virtualization platforms - Database management systems - Big data analytics - High-performance computing (HPC) Scalability and Flexibility The server's design allows for: - Up to 768GB RAM for large in-memory databases - Multiple storage options including NVMe for high-speed storage - Expansion slots for additional network or storage controllers Reliability and Redundancy Features such as redundant power supplies, hot-swappable components, and hardware health monitoring ensure maximum uptime and data integrity. Simplified Management Cisco UCS Manager offers a unified interface for server provisioning, configuration, and monitoring, reducing administrative overhead and streamlining operations. Applications and Use Cases The UCS C240 M4 is ideal for various enterprise

applications, including: - Virtualization and Cloud Computing - Database Servers (SQL, Oracle, MySQL) - Data Warehousing and Big Data Analytics - High-Performance Computing (HPC) - Enterprise Storage Solutions - Web Hosting and Application Servers Comparing UCS C240 M4 with Other Enterprise Servers When evaluating enterprise servers, it’s important to compare specifications and features. The UCS C240 M4 stands out due to: - Its balanced combination of processing power, memory capacity, and storage options - Cisco’s management ecosystem for streamlined operations - Flexibility in configuration to match workload demands Other servers may offer similar specs but might lack the integrated management or modularity of the UCS C240 M4. Conclusion The ucs c240 m4 spec sheet highlights a robust, versatile, and high-performance server built to meet the rigorous demands of modern enterprise environments. Its combination of dual-socket processing, extensive memory and storage support, and advanced management capabilities make it a premier choice for data centers and mission-critical applications. Whether deploying virtualized infrastructure, managing large databases, or supporting high-performance workloads, the UCS C240 M4 provides the scalability, reliability, and ease

of management necessary for enterprise success. Investing in this server means securing a platform that adapts to evolving business needs, ensures uptime, and delivers exceptional performance. For IT professionals seeking a comprehensive, enterprise-grade server solution, the UCS C240 M4 remains a compelling option backed by Cisco's proven technology and support infrastructure. Note: For the most current and detailed specifications, always refer to the official Cisco UCS C240 M4 spec sheet or product documentation.

UCS C240 M4 Spec Sheet: An In-Depth Analysis of a Robust Enterprise Server The UCS C240 M4 stands out as a formidable enterprise-class server designed to meet the demanding needs of modern data centers and large-scale computing environments. As part of Cisco's Unified Computing System (UCS) family, this server blends high performance, scalability, and reliability into a versatile platform suitable for various workloads—from virtualization and database management to high-performance computing. In this article, we will dissect the specifications of the UCS C240 M4, exploring its architecture, hardware capabilities, and the strategic advantages it offers to enterprise users.

Overview of the UCS C240 M4

The Cisco UCS C240 M4 is engineered as a dual-socket, rack-mountable server that emphasizes expandability, processing power, and storage capabilities. It is optimized for data-intensive applications, offering a high degree of flexibility to adapt to evolving enterprise requirements. The server’s design emphasizes modularity, allowing organizations to tailor configurations for specific workloads. Key Highlights: - Dual Intel Xeon E5-2600 v3 or v4 series processors - Support for up to 1.5 TB of DDR4 RAM - Extensive storage options with support for numerous hard drives and SSDs - Multiple PCIe expansion slots - Advanced management features via Cisco UCS management tools

Processor and Memory Architecture

Processors Supported

The UCS C240 M4 is compatible with Intel Xeon E5-2600 v3 and v4 series processors, providing a broad spectrum of options tailored to performance and budget considerations. These processors are built

on the Intel Haswell and Broadwell architectures, respectively, offering significant improvements over previous generations in terms of core counts, energy efficiency, and integrated features. - Number of Sockets: Dual sockets, supporting two processors simultaneously - Core Counts: Up to 22 cores per processor, enabling high parallelism - Hyper-Threading: Supports Hyper-Threading technology for improved multitasking - Cache: Up to 55 MB of Intel Smart Cache per processor These processor capabilities position the UCS C240 M4 as a powerhouse for compute-heavy workloads, including virtualization, database management, and scientific computing.

Memory Capacity and Speed

Memory performance and capacity are vital for server responsiveness and data throughput. The UCS C240 M4 supports: - Maximum RAM: Up to 1.5 TB of DDR4 Registered (RDIMM) or Load-Reduced DIMMs (LRDIMM) - Memory Modules: Up to 24 DIMM slots, evenly distributed across the two CPU sockets - Memory Speeds: Supports DDR4-2133 and DDR4-2400 modules, depending on configuration - Memory Features: Supports features like ECC (Error Correcting Code) for data integrity, rank sparing, and mirroring

for enhanced reliability By supporting high-capacity, high-speed memory, the server ensures efficient handling of large datasets and virtualized environments, minimizing latency and maximizing throughput.

Storage Capabilities and Drive Support

Drive Bays and Storage Architecture

One of the defining features of the UCS C240 M4 is its flexible and expansive storage architecture: - Drive Bays: Up to 24 SFF (Small Form Factor) or 12 LFF (Large Form Factor) drive bays, depending on the configuration - Drive Support: Compatibility with a broad range of SAS, SATA, and NVMe drives - Hot-swappable Drives: Supports hot-swapping for minimal downtime - RAID Support: Integrated hardware RAID controllers (e.g., LSI MegaRAID series), supporting RAID levels 0, 1, 5, 10, 50, and 60 This extensive storage capacity allows for high-density configurations, suitable for large-scale data storage, virtual machine hosting, and data analytics.

Storage Expansion and Options

The server provides multiple options for expanding storage and optimizing data access: - SSD Caching: Supports SSD cache modules to accelerate read/write operations - NVMe Support: Enables ultra-fast data transfer rates for high-performance workloads - Optical Drive Support: Optional DVD or Blu-ray drives for specific use cases - External Storage Connectors: Multiple SAS and SATA ports for external arrays or JBODs The flexibility in drive support and expansion options ensures the UCS C240 M4 can be customized for a variety of enterprise storage needs.

Expansion and Connectivity

PCIe Slots and Expansion Capabilities

The server offers a rich set of PCIe expansion slots, enabling additional hardware integration: - Number of Slots: Up to 4 PCIe 3.0 slots - Configurations: Supports various configurations, including GPU accelerators, network interface cards (NICs), and additional RAID controllers - Form Factors: Slots are available in different sizes to accommodate a broad range of expansion cards This expansion capability facilitates high-performance networking, GPU-compute tasks, or

other specialized functions vital to enterprise workloads.

Networking and I/O

Connectivity options are critical for integrating the server into enterprise networks: - Integrated Network Ports: Typically includes four integrated 1GbE ports, with options for 10GbE NICs - Optional FlexNIC Modules: Support for flexible network interface configurations - Management Interfaces: Dedicated iDRAC (Integrated Dell Remote Access Controller) or Cisco’s UCS management tools for remote monitoring and management The combination of onboard and expansion network options ensures high throughput and reliable connectivity.

Power and Cooling

Power Supply Units (PSUs)

Efficiency and redundancy are crucial for data center operations: - Power Supply Options: Supports dual hot-swappable power supplies for redundancy - Power Efficiency: Typically rated at 80 PLUS Platinum or Gold, ensuring reduced energy consumption - Input Voltage: Supports a wide range of input voltages

(100-240V AC), accommodating global power standards

Cooling Architecture

The server’s cooling system is designed for optimal airflow: - Fans: Multiple high-performance fans dynamically adjust speed based on thermal conditions - Thermal Management: Intelligent airflow management minimizes hotspots and maintains consistent operating temperatures Proper power and cooling configurations contribute to the server’s reliability and lifespan in demanding enterprise environments.

Management and Security Features

UCS Management Tools

Cisco provides comprehensive management solutions: - Cisco UCS Manager: Centralized management platform offering provisioning, monitoring, and troubleshooting - iDRAC: For remote server management, including hardware health monitoring, firmware updates, and console access - Automation and Integration: Supports APIs and integration with

enterprise management frameworks such as SNMP, Redfish, and CIM

Security Features

Security is embedded at multiple levels: - Secure Boot: Ensures only authorized firmware and software are loaded - Trusted Platform Module (TPM): For hardware-based security functions - Role-Based Access Control (RBAC): Limits management access based on user roles - Encryption: Supports data encryption at rest and in transit These features are essential for safeguarding sensitive data and maintaining compliance with enterprise security standards.

Operational Reliability and Certifications

The UCS C240 M4 is built with enterprise reliability in mind: - Redundant Components: Dual power supplies, hot-swappable drives, and fans - Diagnostics: Integrated health monitoring and predictive failure analysis - Certifications: Complies with industry standards such as ISO/IEC 27001, RoHS, and EPEAT for environmental sustainability Reliability features ensure maximum uptime and minimal maintenance overhead, critical for enterprise deployment.

Conclusion: Why the UCS C240 M4 Stands Out

The UCS C240 M4 exemplifies a high-performance, scalable, and flexible server tailored for demanding enterprise environments. Its robust hardware architecture—featuring dual high-core-count processors, extensive memory support, vast storage options, and multiple expansion slots—makes it suitable for a wide array of workloads. The server's management and security features further enhance its appeal, providing administrators with comprehensive tools to optimize performance and safeguard data. In an era where data growth and processing demands are accelerating, the UCS C240 M4 offers a resilient platform capable of adapting to evolving enterprise needs. Whether deployed in virtualization clusters, database farms, or high-performance computing setups, this server remains a versatile cornerstone for modern data centers. Final Thoughts: Investing in the UCS C240 M4 means embracing a future-proof infrastructure component, combining Cisco's renowned reliability with state-of-the-art hardware features. Its detailed specifications underscore its capacity to handle complex, resource-intensive workloads while providing the flexibility and

management capabilities necessary for efficient enterprise operations. As organizations continue to seek scalable and secure server solutions, the UCS C240 M4 remains a compelling choice in the enterprise server landscape.

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For students, downloadable books provide practical advantages. Offline access ensures uninterrupted

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Accessibility is another important consideration. Digital readers often include features such as adjustable text size, night mode, and text-to-speech options. These tools help accommodate diverse learning needs, ensuring that Ucs C240 M4 Spec Sheet remains accessible to a broader audience.

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Perhaps most importantly, digital access changes how people feel about learning. When information is easy to reach, curiosity feels welcome rather than inconvenient. Readers are more likely to explore new ideas, return to old interests, and continue learning simply because the barriers are low.

In the end, downloading Ucs C240 M4 Spec Sheet represents more than a technological convenience. It reflects a shift toward accessible, flexible, and thoughtful learning. When used responsibly through trusted platforms, digital books become reliable companions—supporting curiosity, critical thinking, and continuous personal growth in a world that never stops changing.

Questions & Answers About ucs c240 m4 spec sheet

No	Question	Answer
1	What are the key specifications of the UCS C240 M4 server as per its spec sheet?	The UCS C240 M4 server features dual Intel Xeon E5-2600 v3/v4 processors, up to 24 DIMM slots supporting DDR4 memory, multiple storage options including SAS, SATA, and NVMe drives, and supports various I/O configurations for high performance and scalability.
2	How much memory capacity does the UCS C240 M4 support according to its spec sheet?	The UCS C240 M4 supports up to 3TB of DDR4 memory using 24 DIMM slots, with configurations up to 128GB per DIMM, enabling extensive memory capacity for demanding workloads.
3	What storage options are available on the UCS C240 M4 server according to its spec sheet?	The server offers flexible storage configurations including support for up to 12 small form factor (SFF) drives or 6 large form factor (LFF) drives, with options for SAS, SATA, and NVMe SSDs, providing high storage density and performance.

4	Does the UCS C240 M4 support any specific network connectivity features as per its spec sheet?	Yes, the UCS C240 M4 supports integrated Gigabit Ethernet ports, optional 10GbE add-on cards, and multiple PCIe expansion slots for additional network interface cards, ensuring robust network connectivity.
5	What are the power supply options available for the UCS C240 M4 server based on its spec sheet?	The server typically comes with redundant hot-swappable power supplies, with options for 750W or higher wattage units, ensuring reliability and continuous operation in data center environments.

UCS C240 M4, server specifications, Dell PowerEdge C240 M4, technical datasheet, server hardware details, enterprise server specs, rack server features, server configuration, data center hardware, UCS server documentation

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Consistent formatting allows readers to focus on content rather than navigation challenges.

Using PDF Files for Education, Ebooks, and Digital Learning

PDF files play a central role in modern education and digital learning environments. From textbooks and lecture notes to training manuals and self-study guides, PDFs provide a reliable and flexible format for delivering structured knowledge. When distributing Ucs C240 M4 Spec Sheet as a PDF for educational purposes, understanding how learners interact with digital documents helps maximize effectiveness and engagement.

Educational content often needs to be accessed across multiple devices and platforms. PDFs support this requirement by maintaining consistent formatting and layout, ensuring that students and educators experience Ucs C240 M4 Spec Sheet as intended regardless of screen size or operating system. This stability makes PDFs particularly suitable for long-form learning materials and reference documents.

Why PDFs are widely used in education

One of the main reasons PDFs are popular in education is their universal accessibility. Most devices include built-in PDF readers, eliminating the need for additional software. This convenience allows learners to focus on content rather than technical setup. For materials like Ucs C240 M4 Spec Sheet, ease of access reduces barriers to learning and encourages consistent usage.

PDFs also support offline access, which is essential in environments with limited or unreliable internet connectivity. Students can download educational PDFs once and continue learning without constant online access, making PDFs practical for a wide range of learning contexts.

Designing PDFs for effective learning

Well-designed educational PDFs improve comprehension and retention. Clear headings, logical structure, and consistent formatting guide learners through the material. When preparing Ucs C240 M4 Spec Sheet, breaking content into manageable sections prevents cognitive overload and helps learners focus on key concepts.

Visual elements such as diagrams, tables, and illustrations support understanding when used appropriately. However, visuals should complement text rather than overwhelm it. Balanced design enhances clarity and keeps learners engaged throughout the document.

Using PDFs as ebooks

PDFs are commonly used as ebooks due to their stable layout and wide compatibility. Unlike some ebook formats that adapt content dynamically, PDFs preserve page design, making them suitable for textbooks, workbooks, and visually structured materials. When presenting Ucs C240 M4 Spec Sheet as an ebook, this consistency ensures a predictable reading experience.

To improve ebook usability, features such as bookmarks and clickable tables of contents should be included. These tools allow readers to navigate chapters easily and revisit important sections without excessive scrolling.

Interactive learning features in PDFs

Modern PDFs can include interactive elements that enhance learning. Hyperlinks, embedded media, and

interactive forms allow users to engage with content more actively. For example, quizzes or self-assessment sections embedded within Ucs C240 M4 Spec Sheet encourage reflection and reinforce learning outcomes.

Interactive elements should be used thoughtfully. Overuse may distract learners or create compatibility issues on certain devices. Testing ensures that interactive features function reliably across platforms.

Annotation and study tools

Annotation features are particularly valuable for educational PDFs. Highlighting text, adding comments, and inserting notes allow learners to personalize their study experience. When studying Ucs C240 M4 Spec Sheet, annotations help capture insights and organize thoughts for review.

Encouraging students to use annotation tools promotes active learning. Annotated PDFs become personalized study resources that reflect individual learning paths and priorities.

Accessibility in educational PDFs

Accessible PDFs ensure that educational content

reaches diverse learners. Selectable text, logical reading order, and alternative text for images support screen readers and assistive technologies. When Ucs C240 M4 Spec Sheet follows accessibility guidelines, it becomes usable for learners with different abilities.

Accessibility also improves overall usability. Clear structure, proper headings, and readable fonts benefit all learners, not only those using assistive tools.

Supporting different learning styles

Learners have varied preferences and needs. PDFs can support multiple learning styles by combining text, visuals, and structured layouts. Including summaries, key points, and review sections in Ucs C240 M4 Spec Sheet helps reinforce understanding for visual and reflective learners.

Well-organized PDFs allow learners to progress at their own pace, revisit sections, and focus on areas that require additional attention.

Using PDFs in online and blended learning

In online and blended learning environments, PDFs often serve as core resources. They complement video lectures, discussion forums, and interactive platforms.

Linking Ucs C240 M4 Spec Sheet within learning management systems ensures consistent access for students.

PDFs provide a stable reference point in dynamic online courses, allowing learners to revisit foundational material as needed throughout the learning process.

Managing updates and revisions in learning materials

Educational content evolves over time. Managing updates efficiently ensures that learners access the most accurate information. Clear version labeling helps distinguish updated editions of Ucs C240 M4 Spec Sheet and prevents confusion among students.

Providing revision notes or summaries of changes helps learners understand what has been updated and why. This practice supports transparency and trust in educational materials.

Assessment and evaluation using PDFs

PDFs can be used for assessments such as worksheets, assignments, and exams. Form-enabled PDFs allow students to enter responses digitally,

simplifying submission and review processes. When using Ucs C240 M4 Spec Sheet for assessment, ensuring clarity and compatibility is essential.

Secure settings can help protect assessment integrity by restricting editing or printing where appropriate. However, accessibility and fairness should always be considered when applying restrictions.

Copyright and ethical use in education

Educational PDFs must respect copyright and intellectual property rights. Using licensed content and providing proper attribution ensures ethical distribution of materials like Ucs C240 M4 Spec Sheet. Understanding usage rights helps educators and institutions avoid legal issues.

Clear usage guidelines inform learners about permitted actions, such as printing or sharing, and promote responsible use of educational resources.

Storing and organizing educational PDFs

Students and educators often manage large collections of learning materials. Organizing PDFs by course, topic, or semester improves efficiency. Clear naming conventions make it easier to locate Ucs C240

M4 Spec Sheet during study or teaching sessions.

Regular review and cleanup prevent clutter and ensure that outdated materials do not interfere with current learning objectives.

Encouraging effective study habits with PDFs

How learners use PDFs influences learning outcomes. Encouraging practices such as note-taking, bookmarking, and regular review helps maximize the value of educational materials. When used consistently, Ucs C240 M4 Spec Sheet becomes a central tool in the learning process rather than a passive resource.

Guidance on effective PDF usage supports independent learning and helps students develop strong study skills over time.

Future trends in educational PDF usage

As digital learning evolves, PDFs continue to adapt. Integration with cloud platforms, enhanced interactivity, and improved accessibility features support modern educational needs. Staying informed about these trends ensures that Ucs C240 M4 Spec Sheet remains relevant and effective in future learning

environments.

Educational institutions and content creators who adapt their PDFs to evolving standards maintain long-term value and usability.

Final thoughts on PDFs in education and learning

PDF files remain a powerful and flexible tool for education, ebooks, and digital learning. By focusing on accessibility, structure, interactivity, and thoughtful design, educators and learners can maximize the benefits of Ucs C240 M4 Spec Sheet. When used strategically, PDFs support effective learning experiences across diverse educational contexts.