

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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In conclusion, the ability to download *Ucs C240 M4*

Spec Sheet encapsulates the core benefits of digital education. Through accessibility, portability, interactivity, and ethical engagement with resources, learners gain powerful tools for academic success, professional growth, and personal development. Digital access ensures that knowledge remains dynamic, inclusive, and relevant in an increasingly digital world.

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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Ucs C240 M4 Spec Sheet eBooks allow readers to engage deeply with subjects.

Readers use Ucs C240 M4 Spec Sheet eBooks to revisit core principles.

Ucs C240 M4 Spec Sheet eBooks encourage self-directed learning by giving readers control over pacing, sequencing, and depth of exploration.

Digital learning with Ucs C240 M4 Spec Sheet eBooks reduces reliance on fragmented external resources.

Readers can prioritize relevant sections without losing context.

Ucs C240 M4 Spec Sheet eBooks help learners manage long-term educational goals.

Organizing Ucs C240 M4 Spec Sheet

Organizing Ucs C240 M4 Spec Sheet in digital form is an essential step to ensure long-term usability, efficiency, and easy access. As your digital library grows, unorganized files can quickly become difficult to manage, leading to wasted time searching for documents and potential loss of important information. A well-structured organization system helps you maintain control over your collection and improves productivity.

One of the simplest and most effective methods of organization is using clearly labeled folders. Create a main folder dedicated to Ucs C240 M4 Spec Sheet and divide it into subfolders based on categories such as subject, author, year, edition, or format. For example, you might organize folders by topics, academic level, or personal vs professional use. Consistent folder structures make navigation intuitive and reduce confusion.

File naming conventions play a crucial role in organization. Instead of generic file names, use descriptive and consistent naming formats. Including details such as title, author, version, and date can make files easier to identify at a glance. For example, using a format like “Title_Author_Edition_Year.pdf”

ensures clarity and avoids duplicate confusion. Consistency is key—choose a naming system and apply it uniformly across all Ucs C240 M4 Spec Sheet files.

Tagging files is another powerful organizational strategy. Many operating systems and cloud storage platforms support file tags or labels. Tags allow you to categorize Ucs C240 M4 Spec Sheet across multiple dimensions without duplicating files. For example, a single document can be tagged as “study,” “reference,” “important,” or “exam prep.” This makes retrieval faster when searching your library.

For collections involving multiple volumes or editions, version control is essential. Keeping track of revisions ensures that you always know which version is the most current or authoritative. You can use version numbers in file names or create a separate folder for archived editions. This practice is especially important for academic, technical, or professional Ucs C240 M4 Spec Sheet materials that may be updated regularly.

Using cloud storage for organization

Cloud storage services such as Google Drive,

Dropbox, and OneDrive offer advanced tools for organizing Ucs C240 M4 Spec Sheet. These platforms allow folder hierarchies, tagging, search functionality, and cross-device access. Cloud storage also provides automatic backups, reducing the risk of data loss due to device failure.

Search functionality within cloud platforms is particularly valuable. Many services can search not only file names but also text within PDFs, making it easy to locate specific content inside Ucs C240 M4 Spec Sheet documents. This feature saves significant time, especially when working with large libraries or research materials.

Sharing controls in cloud storage further enhance organization. You can manage access permissions, track shared links, and maintain privacy. This is useful when collaborating with others or distributing selected Ucs C240 M4 Spec Sheet files while keeping the rest of your library private.

Offline Access

Offline access is one of the most important advantages of digital copies of Ucs C240 M4 Spec Sheet. Downloading files for offline reading ensures

uninterrupted access regardless of internet availability. This is especially useful during travel, commuting, or in locations with limited or unreliable connectivity.

Most eBook platforms and cloud storage services allow users to mark files for offline access. Once downloaded, Ucs C240 M4 Spec Sheet can be read, annotated, and bookmarked without an active internet connection. Changes made offline are often synced automatically once the device reconnects to the internet, ensuring continuity across devices.

Syncing devices enhances the offline experience. When your devices are connected to the same account, progress, bookmarks, highlights, and notes can be synchronized seamlessly. This means you can start reading Ucs C240 M4 Spec Sheet on one device and continue on another without losing your place. Synchronization is particularly valuable for users who switch between smartphones, tablets, and computers.

To optimize offline access, it is important to manage storage space effectively. Large PDF libraries can consume significant storage, especially on mobile devices. Regularly reviewing downloaded files and

removing those no longer needed helps maintain sufficient space while keeping essential Ucs C240 M4 Spec Sheet materials available offline.

Backup strategies for offline libraries

Even with offline access, backups remain essential. Maintaining copies of your Ucs C240 M4 Spec Sheet library on external drives or secondary cloud accounts provides additional protection against data loss. Periodic backups ensure that your organized collection remains safe and recoverable in case of device failure or accidental deletion.

Interactive Elements

Some digital versions of Ucs C240 M4 Spec Sheet go beyond static text by incorporating interactive elements designed to enhance engagement and retention. These features transform traditional reading into a more dynamic and immersive experience, particularly for educational and instructional content.

Interactive elements may include multimedia such as embedded audio, video explanations, animations, or hyperlinks to additional resources. These features provide context, demonstrations, and real-world

examples that support deeper understanding. For learners, multimedia content can make complex topics easier to grasp and more memorable.

Quizzes and exercises are another common interactive feature. These elements allow readers to test their understanding of Ucs C240 M4 Spec Sheet content immediately after reading. Interactive quizzes provide instant feedback, reinforcing learning and helping identify areas that need further review. This approach is especially effective for students, trainees, and self-learners.

Some interactive Ucs C240 M4 Spec Sheet editions also include clickable tables of contents, internal navigation links, and progress indicators. These tools improve usability by allowing readers to move quickly between sections and track their progress. Enhanced navigation is particularly valuable for long or complex documents.

Device and platform compatibility

Interactive features may require specific apps or platforms to function properly. Not all PDF readers or eBook apps support advanced multimedia or interactive elements. Before downloading or

purchasing an interactive version of Ucs C240 M4 Spec Sheet, it is important to verify compatibility with your devices and preferred reading software.

Interactive content may also increase file size and resource usage. Devices with limited storage or processing power may experience slower performance. Understanding these requirements helps ensure a smooth reading experience without technical issues.

Balancing interactivity and focus

While interactive elements enhance engagement, moderation is important. Too many distractions can interrupt reading flow and reduce concentration. Choosing interactive Ucs C240 M4 Spec Sheet editions that balance content and features ensures that interactivity supports learning rather than detracting from it.

Some readers prefer to disable certain interactive features or use simplified reading modes when focusing on deep study. The flexibility to customize the reading experience allows users to adapt Ucs C240 M4 Spec Sheet to different contexts, such as quick review versus in-depth learning.

Best practices for managing interactive Ucs C240 M4 Spec Sheet

- Keep interactive files organized separately if they require specific apps or platforms.
- Test interactive features before relying on them for study or teaching.
- Ensure offline availability if interactive content is needed without internet access.
- Maintain updated software to support multimedia and security features.
- Balance interactive use with focused reading sessions.

Long-term organization strategies

As your collection of Ucs C240 M4 Spec Sheet grows, periodically reviewing and reorganizing your library helps maintain efficiency. Removing outdated files, updating versions, and refining folder structures keeps your system clean and functional. Long-term organization is not a one-time task but an ongoing process that evolves with your needs.

Final thoughts on organizing Ucs C240 M4 Spec Sheet

Effective organization, reliable offline access, and thoughtful use of interactive elements significantly enhance the value of digital Ucs C240 M4 Spec Sheet. By implementing structured folders, consistent

naming, cloud synchronization, and backup strategies, users can maintain a clean and accessible library. Interactive features further enrich the reading experience when used appropriately. Together, these practices ensure that Ucs C240 M4 Spec Sheet remains easy to manage, enjoyable to read, and highly effective as a long-term digital resource.