

Cisco Connected Safety and Security Cisco UCS Platform Series

The Cisco UCS C220 and C240 M5 Rack Servers deliver superior performance for deploying and managing Cisco Video Surveillance Manager.

Product overview

The Cisco[®] Connected Safety and Security Unified Computing System[™] (Cisco UCS[®]) platform series offers you performance and density for deploying and managing Cisco Video Surveillance Manager. Cisco Connected Safety and Security Cisco UCS includes a suite of two server models and a wide array of features in a single, easy-to-use, and easy-to-deploy configuration.

- The Cisco Connected Safety and Security Cisco UCS C220 model (**KIN-UCSM5-1RU-K9**) is an enterprise-class server in a one-rack unit (1RU) form factor with a single Intel Xeon 4114 processor that delivers significant performance and efficiency. It supports 16 GB of memory and four 3.5-inch drives for up to 40TB storage capacity in a compact 1RU package. The **KIN-UCSM5-1RU-K9** delivers a total Media Server throughput of 200Mbps.
- The Cisco Connected Safety and Security Cisco UCS C240 model (**KIN-UCSM5-2RU-K9**) is an enterprise-class server in a 2RU form factor with dual Intel Xeon 4114 processors that delivers significant performance and efficiency. It supports up to 64 GB of memory and a maximum of 120 TB with twelve 3.5-inch drives for security video storage. The **KIN-UCSM5-2RU-K9** delivers a total Media Server throughput of 385Mbps.

Cisco UCS C220 overview

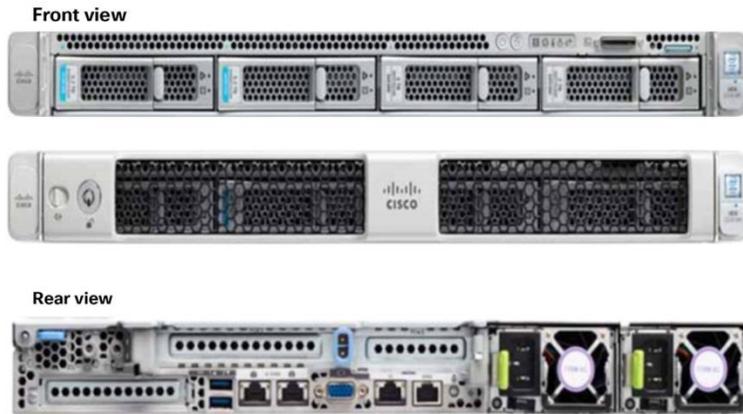
Table 1 describes Cisco Connected Safety and Security KIN-UCSM5-1RU-K9 software support.

Table 1. Cisco Connected Safety and Security KIN-UCSM5-1RU-K9 software support

| Software application | Options |
|----------------------------|--|
| Video Surveillance Manager | <ul style="list-style-type: none"> • Video Surveillance Manager Version 7.11.1 • Drive and RAID configurations <ul style="list-style-type: none"> ◦ With 2 x LFF HDDs, RAID 1 ◦ With 4 x LFF HDDs, RAID 5 |

Figure 1 illustrates the Cisco Connected Safety and Security KIN-UCSM5-1RU-K9.

Figure 1. Cisco Connected Safety and Security KIN-UCSM5-1RU-K9



Cisco UCS C240 overview

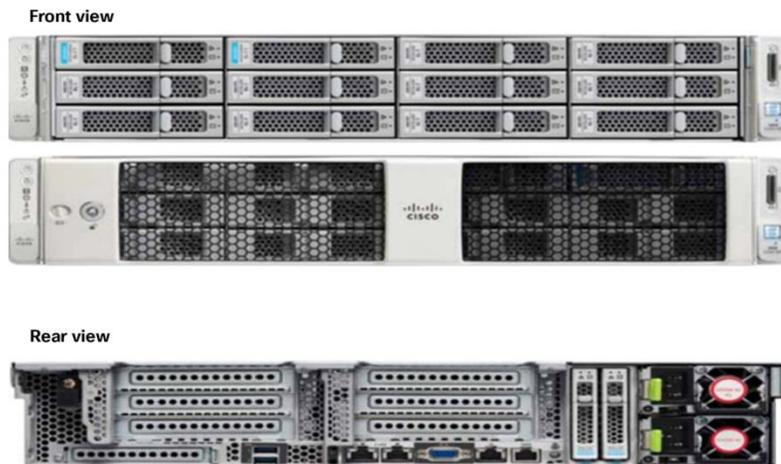
Table 2 describes the Cisco Connected Safety and Security Cisco UCS C240 M5 software application.

Table 2. Cisco Connected Safety and Security Cisco UCS C240 M5 software application

| Software application | Options |
|-----------------------------------|---|
| Video Surveillance Manager | Video Surveillance Manager Version 7.11.1 Drive and RAID configurations <ul style="list-style-type: none"> • With 2 x LFF HDDs, RAID 1 • With 6 x LFF HDDs, RAID 5, or RAID 6 • With 12 x LFF HDDs, RAID 5, or RAID 6 |

Figure 2 illustrates the Cisco Connected Safety and Security KIN-UCSM5-2RU-K9.

Figure 2. Cisco Connected Safety and Security KIN-UCSM5-2RU-K9



Platform overview

Table 3 gives an overview of the Cisco Connected Safety and Security Cisco UCS M5 platform.

Table 3. Cisco Connected Safety and Security Cisco UCS M5 platform overview

| Feature | Benefit |
|--|--|
| Intel Xeon processor 4114 | The Intel Xeon processor 4114 with 10 cores delivers the best combination of performance, built-in capabilities, and cost-effectiveness: <ul style="list-style-type: none"> • Improved compute performance over the previous generation Intel Xeon E5-2620 processor that were used in UCS M4. • High-performance DDR4 memory technology |
| Integrated dual-port 10/1Gigabit Ethernet | Outstanding network I/O performance and increased network efficiency and flexibility |
| High-capacity, flexible internal storage | 7200-RPM 3.5" LFF SAS drives for high capacity and performance Up to 4 drives in C220 M5 and up to 12 drives in C240 M5 |
| RAID 1, 5, 6 | <ul style="list-style-type: none"> • In C220: Cisco 12G RAID controller KIN-MRAID1GB-KIT RAID 1 and 5 are supported • In C240: Cisco 12G modular RAID controller KIN-RAID-M5 with 2-GB cache RAID 1, 5, and 6 are supported |
| Hot-swappable SAS drives | <ul style="list-style-type: none"> • Up to 4 LFF (U220) or 12 LFF (U240) front-accessible, hot-swappable SAS drives |
| Cisco UCS C-Series Integrated Management Controller (IMC) | <ul style="list-style-type: none"> • Web user interface for server management; remote Keyboard, Video, and Mouse (KVM) • Virtual media support for remote CD and DVD drives as if local • Command-Line Interface (CLI) for server management |
| Advanced Reliability, Availability, and Serviceability (RAS) features | <ul style="list-style-type: none"> • Hot-swappable, front-accessible drives • Hot-swappable fans • Hot-swappable and redundant power supplies for enterprise-class reliability and uptime (C240 standard; C220 optional) • Convenient latching lid for easy top access to internal server components • Tool-free access to all serviceable items and color-coded indicators to guide users to hot-pluggable and serviceable items |
| Health monitoring | Health status monitoring from Video Surveillance Operations Manager |

Connectors

Table 4 describes the connectivity and connectors of the Cisco Connected Safety and Security Cisco UCS M5 platform series.

Table 4. Cisco Connected Safety and Security KIN-UCSM5-xRU-K9 platform I/O connections

| Item | Specification |
|---|---|
| USB 3.0 | 2 ports |
| 1G/10G Ethernet | 2 ports |
| 10/100/1000M Ethernet | 1 port dedicated for management via CIMC |
| Serial RS-232 (RJ-45) | 1 port on the rear |
| Video ports | 1 VGA video port (15-pin) |
| KVM | 1 KVM console connector (supplies 2 USB, 1 VGA, 1 serial [DB-9] connectors) |
| Fibre Channel (optional PCIe card) | Emulex LPe31002, 2 ports, KIN-PCIE-BD16GF (Option for 2RU) |

Specifications

Table 5 lists the specifications for the Cisco UCS C220 M5 Rack Server.

Table 5. KIN-UCSM5-1RU-K9 technical specifications

| Item | Specifications |
|-----------------------------------|--|
| Form factor | 1RU rack server |
| Processors | One Intel Xeon 4114 processor |
| Memory | 16 GB DDR4-2666MHz RDIMM |
| PCIe expansion | 3 PCIe 3.0 slots via riser 1 |
| RAID controllers | Internal controllers: Cisco 12-Gbps modular RAID controller (PCIe 3.0) with 1 GB Flash-Backed Write Cache (FBWC), providing connectivity to 4 SAS LFF HDDs |
| Internal storage | Up to 4 x 3.5-inch SAS HDDs of 2 TB, 4 TB, or 10 TB capacities |
| Embedded network interface | Dual 1G/10GBASE-T Intel x550 Ethernet ports |
| Power supplies | Hot-pluggable; optional redundant 770W AC |
| Management | Cisco IMC |
| Rack options | Cisco friction rail kit for the 1RU |

Table 6 lists the specifications for the Cisco UCS C240 M5 Rack Server.

Table 6. KIN-UCSM5-2RU-K9 technical specifications

| Item | Specifications |
|-----------------------------------|--|
| Form factor | 2RU rack server |
| Processors | Two Intel Xeon 4114 processors |
| Memory | 64 GB DDR4 of total system memory |
| PCIe expansion | 3 PCIe 3.0 slots |
| RAID controllers | Internal controllers: Cisco 12-Gbps modular RAID controller (PCIe 3.0) with 2 GB FBWC, providing connectivity to 12 LFF SAS HDDs |
| Internal storage | Up to 12 x 3.5-inch LFF SAS HDDs of 2 TB, 4 TB, or 10 TB capacities |
| Embedded network interface | Dual 10GBASE-T Intel x550 Ethernet ports |
| Power supplies | Two, Hot-pluggable, redundant 1050W AC |
| Management | Cisco Integrated Management Controller (IMC) |
| Rack options | Cisco ball-bearing rail kit |

Certifications

For country approval status, visit the Product Approval Status (PAS) tool: <https://tools.cisco.com/cse/prdapp>.

Ordering Information

To place an order, visit the [Cisco Ordering page](#). To download firmware, visit the [Cisco Software Center](#).

Table 7 provides ordering information for the Cisco Connected Safety and Security Cisco UCS platform series.

Table 7. KIN-UCSM5-1RU-K9, KIN-UCSM5-2RU-K9 ordering information

| Item | Specification |
|---|--|
| KIN-UCSM5-1RU-K9 | Cisco Connected Safety and Security Cisco UCS C220 M5 1RU chassis with motherboard, one 2.2-GHz 4114 CPU, 16 GB DDR4 memory, and one 770W power supply (no drives and no option cards) |
| KIN-UCSM5-2RU-K9 | Cisco Connected Safety and Security Cisco UCS C240 M5 2RU chassis with motherboard, dual 2.2-GHz 4114 CPUs, 64 GB DDR4 memory, and dual 1050W power supply (no drives and no option cards) |
| HDD options for selection at time of order | KIN-HD2T7KL12N (Option for 1RU and 2RU) 2 TB 12G SAS 7.2K RPM LFF HDD |
| | KIN-HD4T7KL12N (Option for 1RU and 2RU) 4 TB 12G SAS 7.2K RPM LFF HDD |
| | KIN-HD10T7KL4KN (Option for 1RU and 2RU) 10 TB 12G SAS 7.2K RPM LFF HDD (4K) |
| | UCSC-BBLKD-S2 3.5-inch HDD blanking panel |
| Upgrade options at time of order | KIN-PCIE-BD16GF (Option for 2RU) Emulex LPe31002 dual-port 16G Fiber Channel HBA |

Service and support

Cisco and our certified partners can help you accelerate success and improve the return on your investment in a Cisco Connected Safety and Security solution. The Cisco lifecycle approach to services defines the requisite activities at each phase of the solution lifecycle:

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- Accelerates migration by assessing the readiness of your network to support the system and by developing a sound design
- Supports smooth implementation through effective planning and expert installation, configuration, and integration
- Increases operational efficiency and extends the value of your investment with superior technical support

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For more information

For more information about the Cisco Connected Safety and Security Cisco UCS platform series, contact your local account representative or visit <https://www.cisco.com/go/physec>.



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