Cisco UCS C3160 Rack Server

Modular High-Density Cisco UCS C-Series Rack Servers

The Cisco UCS® C3160 Rack Server (Figure 1) is a modular, high-density server ideal for service providers, enterprises, and industry-specific environments. The Cisco UCS C3160 addresses the need for highly scalable computing with high-capacity local storage. Designed for a new class of cloud-scale applications, it is simple to deploy and excellent for unstructured data repositories, media streaming, and content distribution.

Figure 1. Cisco UCS C3160 Rack Server

Product Overview

Extending the capability of the Cisco UCS portfolio, the new Cisco UCS C3160 Rack Server is an advanced, modular rack server with extremely high storage density. Based on the Intel Xeon processor E5-2600 v2 series, it offers up to 360 TB of local storage in a compact 4-rack-unit (4RU) form factor.

Because all its hard-disk drives are individually hot-swappable, and with its built-in enterprise-class Redundant Array of Independent Disks (RAID) redundancy, the Cisco UCS C3160 helps you achieve the highest levels of data availability.

Unlike typical high-density rack servers that require extended depth racks, the Cisco UCS C3160 has no such requirement and can comfortably fit in a standard-depth rack, such as the Cisco UCS R42610.

Cisco UCS with
Intel® Xeon® Processors

The Cisco UCS C3160 uses a modular server architecture which, taking advantage of our blade technology expertise, allows you to upgrade the compute or network nodes in the system without requiring a data migration from one system to another. It delivers:

- Up to 60 large-form-factor (LFF) drives, plus two solid-state drive (SSD) boot drives
- Up to 256 GB memory
- Support for 12-Gbps serial-attached SCSI (SAS) drives
- A modular LAN-on-motherboard (mLOM) slot on the system I/O controller for installing next-generation Cisco® virtual interface card (VIC) or third-party network interface card (NIC)
- High reliability, availability, and serviceability features with tool-less server nodes, system I/O controller, easy-to-use latching lid, and hot-swappable and hot-pluggable components

The Cisco UCS C3160 is deployed as a standalone server in both bare-metal or virtualized environments. Its modular architecture reduces TCO by allowing you to upgrade individual components over time and as use cases evolve, without having to replace the entire system.

Applications

Taking advantage of today's high-capacity drives, the Cisco UCS C3160 excels at high-throughput workloads, such as media and content streaming, as well as more general-purposes workloads. Capable of processing multiple gigabytes per second, the Cisco UCS C3160, combined with third-party storage software, can effectively be used to deliver high-definition media, for analytic workloads, or simply as a high-performance software storage system for unstructured data.

The Cisco UCS C3160 is ideal for deploying:

- Media streaming
- Content distribution
- OpenStack environments
- Ceph-based object stores
- Software-defined and distributed storage environments

Product Specifications

Table 1 lists the specifications for the Cisco UCS C3160 Rack Server.

Table 1. Product Specifications

Chassis	4RU server
Processors	2 Intel Xeon processors E5-2600 v2 product family
Memory	8 dual in-line memory module (DIMM) slots per processor 128 GB or 256 GB capacity with DDR3-registered DIMMs
PCIe slots	None; one Cisco mLOM adapter per SIOC
System I/O controllers (SIOC)	Up to 2 system I/O controllers with Cisco mLOM slot that can accommodate 1-GB or 10-GB adapters and 1-Gbps Ethernet management port on each
Adapters	One per mLOM Cisco Virtual Interface Card VIC 1227 Dual-Port 10-Gbps Intel MLOM Quad-Port 1-Gb RJ-45

RAID controller	Embedded Cisco 12-Gbps RAID Controller supports RAID 0, 1, 5, 10, 50, and 60, and provides enterprise-class data protection for up to 60 drives
Total drive slots	62 (60 LFF + 2 SFF)
Hard drives	Up to 56 top-accessible, hot-swappable, 3.5-inch 6-TB or 4-TB NL-SAS HDDs Additional 4 optional rear-accessible, hot-swappable, 3.5-inch 6-TB or 4-TB NL-SAS HDDs 2 rear-accessible, hot-swappable, 2.5-inch 120-GB SSDs
Power supplies	4 hot-plug, redundant 1050W power supplies
Cisco Integrated Management Controller	Integrated Baseboard Management Controller (BMC) ● IPMI 2.0 compliant for management and control ● One 10/100/1000 Ethernet out-of-band management interface ● CLI and WebGUI management tool for automated, lights-out management ● KVM
Physical unit	4RU height x 31.8-inch depth

For More Information

http://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-c3160-rack-server/index.html

Cisco UCS with
Intel® Xeon® Processors

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