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 rack 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 software defined storage environments, unstructured data repositories, Microsoft Exchange, backup and archival, 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 24 Compute Cores
- Up to 60 drives mix of Large Form Factor (LFF) with up to 14 Solid State Drives (SSDs) plus two solid-state drive (SSD) SATA boot drives
- Up to 512 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 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 Near-Line SAS drives, combined with SAS SSDs for caching layer, the Cisco UCS C3160 excels at workloads requiring high sequential throughput such as object stores as well as general purposes enterprise class workloads like email stores. Capable of 12 Gbps of sequential read/write, the Cisco UCS C3160, combined with third-party storage, can effectively be used to deliver unstructured data object stores for many different workloads or simply for archiving.

The Cisco UCS C3160 is ideal for deploying:

- Media streaming
- Microsoft Storage Server
- Microsoft Exchange
- Backup and Archival Software
- Software-defined storage environments including CEPH and SWIFT

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, 256 GB or 512 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, Cisco Virtual Interface Card VIC 1227T Dual-Port 10GBaseT, Intel MLOM Quad-Port 1-Gb RJ-45

RAID controller	Embedded Cisco 12-Gbps RAID, SAS HBA Rail Controller Option available. Controller supports RAID 0, 1, 5, 10, 50, 60, and JBOD mode and provides enterprise-class data protection for up to 60 drives
Total drive slots	62 (60 LFF/SSD + 2 Boot SSD)
Drives	Up to 60 top-accessible, hot-sawppable 3.5-inch 6-TB or 4-TB 7200 RPM NL-SAS HDDs Up to 14 top-accessible, hot-swappable 400 GB SAS Solid-State Drives (SSD) Additional 4 optional rear-accessible, hot-swappable, 3.5-inch 6-TB or 4-TB NL-SAS HDDs Up to 2 rear-accessible, hot-swappable, 2.5-inch 120-GB or 480-GB SATA 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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