Cisco UCS C3260 Rack Server

Product Overview

The Cisco UCS® C3260 Rack Server (Figure 1) is a modular, high-density, high-availability dual node rack server well suited for service providers, enterprises, and industry-specific environments. It addresses the need for dense cost effective storage for the ever-growing data needs. Designed for a new class of cloud-scale applications, it is simple to deploy and excellent for big data applications, software-defined storage environments such as Ceph and Microsoft Storage Spaces and other unstructured data repositories, media streaming, and content distribution.

Figure 1.   Cisco UCS C3260 Rack Server

Extending the capability of the Cisco UCS C3000 portfolio, the Cisco UCS C3260 helps you achieve the highest levels of data availability. With dual-node capability that is based on the Intel® Xeon® processor E5-2600 v2 series, it features up to 360 TB of local storage in a compact 4-rack-unit (4RU) form factor. All hard-disk drives can be asymmetrically split between the dual-nodes and are individually hot-swappable. The drives can be built-in in an enterprise-class Redundant Array of Independent Disks (RAID) redundancy or be in a pass-through mode.

This high-density rack server comfortably fits in a standard 32-inch depth rack, such as the Cisco® R42610 Rack.

The Cisco UCS C3260 is deployed as a standalone server in both bare-metal or virtualized environments. Its modular architecture reduces total cost of ownership (TCO) by allowing you to upgrade individual components over time and as use cases evolve, without having to replace the entire system.

The Cisco UCS C3260 uses a modular server architecture that, using Cisco's blade technology expertise, allows you to upgrade the computing or network nodes in the system without the need to migrate data migration from one system to another. It delivers:

- Dual server nodes
- Up to 24 computing cores per server node
- Up to 60 drives mixing a large form factor (LFF) with up to 14 solid-state disk (SSD) drives plus 2 SSD SATA boot drives per server node
- Up to 512 GB of memory per server node (1 terabyte [TB] total)
- Support for 12-Gbps serial-attached SCSI (SAS) drives

- A system I/O Controller with Cisco VIC 1300 Series Embedded Chip supporting Dual-port 40Gbps

- High reliability, availability, and serviceability (RAS) features with tool-free server nodes, system I/O controller, easy-to-use latching lid, and hot-swappable and hot-pluggable components

Applications

Taking advantage of today's high-capacity Near-Line SAS (NS-SAS) drives together with SAS SSDs for the caching layer, the Cisco UCS C3260 excels at workloads requiring high sequential throughput, such as big data environments. Capable of 12 Gbps of sequential read and write operations, the server, in combination with third-party storage software, can deliver unstructured data stores for many different workloads.

The Cisco UCS C3260 is designed for deploying:

- Big data applications such as MapR and Cloudera

- Microsoft Storage Spaces

- Software-defined storage environments such as CEPH and Scality

Product Specifications

Table 1 lists the specifications for the Cisco UCS C3260 Rack Server.

Table 1.　　Product Specifications

Item	Description
Chassis	4RU server
Processors	2 Intel Xeon processor E5-2600 v2 product family CPUs per server node
Server nodes	2 nodes
Cores	24 per server node
Memory	8 dual in-line memory module (DIMM) slots per processor with 128, 256, or 512 GB of capacity with DDR3 registered DIMMs (RDIMMs)
PCI Express (PCIe) slots	None; Cisco UCS C3260 system I/O controller (SIOC) based on Cisco UCS VIC1300 platform technology
System I/O controllers	Up to 2 system I/O controllers with Cisco VIC 1300 on board with 2 x 40 Gbps QSFP ports (4 ports total - 160 Gbps)
RAID controller	• Embedded Cisco 12-Gbps RAID, SAS host bust adapter (HBA) raid controller option available • Controller supports RAID 0, 1, 5, 10, 50, and 60, and JBOD mode and provides enterprise-class data protection for up to 60 drives
Total drive slots	62 (60 LFF SSD drives plus 2 boot SSD drives)
Drives	• Up to 56 top-accessible, hot-swappable 3.5-inch 6- or 4-TB 7200-rpm NL-SAS HDDs • Up to 14 top-accessible, hot-swappable 400-GB SAS SSD drives • Additional 4 optional rear-accessible, hot-swappable, 3.5-inch 6- or 4-TB NL-SAS HDDs (**Note:** These drives are not available with the second server node) • Up to 2 rear-accessible, hot-swappable, 2.5-inch 120- or 480-GB SATA SSD drives per server node
Power supplies	4 hot-pluggable, redundant 1050-watt (W) power supplies
Cisco Integrated Management Controller (IMC)	Integrated baseboard management controller (BMC) • IPMI 2.0 compliant for management and control • One 10/100/1000 Ethernet out-of-band management interface • Command-line interface (CLI) and web GUI management tool for automated, lights-out management • Keyboard, video, and mouse (KVM) • HTML5 interface
Protocols	FCoE, NFS, SMB, SMB Direct, iSCSI
Physical unit	4RU height x 31.8-inch depth

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For More Information

For additional information, see http://www.cisco.com/c/en/us/products/servers-unified-computing/ucs-c3260-rack-server/index.html.

Cisco UCS with
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