



# Data Center Solutions XA90

Built to meet the storage needs of an exascale future, the Dell Data Center Solutions (DCS) XA90 packs up to ninety hot-serviceable 3.5" drives and two high-performance server nodes into an ultra-dense 4U chassis. Capable of delivering up to 720 terabytes of storage per system, the DCS XA90 efficiently tackles the most demanding cloud storage environments imaginable today and tomorrow.

The Dell DCS XA90 is a highly versatile, dense storage server built to provide astoundingly low dollar-per-GB costs for either cold or warm storage workloads. With the latest Intel® Xeon® E5-2600v3 processors and Dell iDRAC 8 embedded systems management, the DCS XA90 gives cloud builders the storage capacity they need and the manageability they demand.

## Maximize storage density

Architect massive object or block level data stores for cloud environments and data analytics with up to ninety 3.5" SATA hard drives, each up to 8TB in capacity, for nearly three-quarters of a petabyte of storage per 4U chassis. Two 2.5" SSD or SATA boot drives provide additional capability for high-performance storage within each node for rapid access to often-used data.

## Increase operational reliability

Get greater flexibility in your failure domain architecture with up to two high-performance server nodes per chassis. Featuring up to 384GB of DDR4 memory and two Intel Xeon E5-2600v3 processors, each node eliminates the need for additional storage controllers and maximizes control and availability for your domains.

## Discover greater versatility

Drive increased flexibility and performance for key workloads with support for NVMe Express (NVMe) and up to four PCIe slots along with dual 40Gbps Ethernet connectivity to eliminate costly bottlenecks. Deliver high availability even under heavy demand with up to four 1600W Platinum-efficiency power supplies that provide highly-redundant A/B and split zone power configuration capabilities.

## Innovative management with intelligent automation

Leveraging the incomparable agent-free capabilities of the integrated Dell Remote Access Controller (iDRAC), server deployment, configuration and updating are streamlined on the DCS XA90 across the Dell OpenManage portfolio and through integration with third-party management solutions.

## DCS XA90 ultra-dense storage server

- 4U chassis with two server nodes featuring Intel Xeon E5-2600v3 processors
- Up to 90x 3.5" hot-serviceable SATA drives
- Up to 4x 1600W PSUs for A/B & split zone use
- Dual 40 Gbps Ethernet connectivity

| Feature             | Technical specification  |
|---------------------|--|
| Form factor         | 4U rack-mount chassis  |
| Processor           | Intel® Xeon® processor E5-2600 v3 product family<br><b>Processor sockets:</b> 2 per server node (with up to two nodes per chassis)<br><b>Chipset:</b> C610<br><b>Cores:</b> 10 or 12 per processor with up to 30MB L3 cach |
| Memory              | 12 DIMM slots per server node: <ul style="list-style-type: none"> <li>• 16GB (1.2V) DDR4 RDIMM (up to 2133MT/s)</li> <li>• 32GB (1.2V) DDR4 RDIMM (up to 2133MT/s)</li> </ul>  |
| I/O slots           | 4x PCIe (2x full-height, half-length; 2x half-height, half-length)   |
| Server node storage | Up to 2x 2.5" hot-plug SATA SSD s or HDDs <ul style="list-style-type: none"> <li>• 200GB eMLC SSD</li> <li>• 1TB SATA 7.2K</li> </ul>  |
| Enclosure storage   | Up to 90x 3.5" hot-plug SATA HDDs <ul style="list-style-type: none"> <li>• 6TB SATA 7.2K 6Gb/s</li> <li>• 8TB SATA 7.2K 6Gb/s</li> </ul>   |
| RAID controllers    | PMC Sierra 8805<br>PMC Sierra 81605 w/SuperCap   |
| Communications      | <b>Optional 10 Gbps Ethernet adapters:</b><br>Mellanox CX3 Pro Dual Port 10Gbe<br><b>Optional 40 Gbps Ethernet adapters:</b><br>Mellanox CX3 Pro Dual Port 40Gbe<br>Mellanox CX4 Pro Dual Port 40Gbe                       |
| Power supplies      | Up to four Platinum efficiency 1600W AC hot-plug redundant power supplies  |
| Systems management  | iDRAC Enterprise with IPMI 2.0 support   |
| Operating systems   | Red Hat Enterprise Linux 5.5<br>Microsoft Windows Server 2012  |
| Dimensions          | Height: 176mm<br>Width: 412mm<br>Depth: 1100mm<br>Maximum weight: ~285lbs (with 90x 3.5" HDDs & 2x server nodes)   |

## End-to-end technology solutions

Reduce IT complexity, lower costs and eliminate inefficiencies by making IT and business solutions work harder for you. You can count on Dell for end-to-end solutions to maximize your performance and uptime. A proven leader in servers, storage and networking, Dell Enterprise Solutions and Services deliver innovation at any scale. Dell Data Center Solutions (DCS) offerings may be subject to customer order qualification. For more information, please contact a Dell DCS sales representative.

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