VECTOR DATA™

Forge R730

PRODUCT OVERVIEW

The NEBS Level 3 and ETSI compliant Forge R730 excels at a wide range of very demanding workloads for midsized and large enterprises, such as data warehouses, e-commerce, virtual desktop infrastructure (VDI), databases and high-performance computing HPC) as a data node. The R730 is a highly versatile, two-socket 2U rack server with impressive processor performance, a large memory footprint, extensive I/O options and a choice of dense, highperformance storage or low-cost, high-capacity storage. When configured with 3.5" drives, the R730 provides up to 48TB of rapidly accessed storage for databases, business intelligence and HPC applications.

Perfect for NFV (network function virtualization), the Forge R730 offers full support for VMware®, OpenStack, and other leading virtualization platforms, providing a foundation for SDN and the network of the future.

Drive peak compute performance across a variety of workloads with the Intel® Xeon® processor E5-2600 v3 product family and state-of-the-art DDR4 memory. Boost data access for applications with up to 16 x 12Gbps SAS drives and high-performance dual RAID. Take advantage of advanced accelerators and GPUs to maximize performance in HPC, VDI and imaging environments.

The Forge R730 has global availability and is designed to deliver high performance, maximum scalability, and safe and reliable service:

- **Open standard systems.**
  - –Improved compatibility based on industry-leading products
  - –Rapidly scalable and easily expandable
- **Industry standards solutions.**
  - –NEBS Level 3 and ETSI compliant
  - –AC and DC power options
  - –Fresh-air cooling systems enable servers to operate in warmer environments than traditional data centers
  - –Designed for extreme conditions such as high humidity, earthquakes and dust
- **Global regulatory support and availability.**

Discover greater versatility

With 24 DIMMs of high-capacity, low-power DDR4 memory, seven PCI Express® (PCIe) 3.0 expansion slots and highly scalable local storage, the R730 is extremely flexible. Create a dense, resource-rich virtualization environment with up to 16 2.5" drives. Combine that with the R730's GPU capability to save infrastructure costs and consolidate management operations in a scalable and centralized virtual desktop environment. The GPU option also makes the R730 an excellent choice as a midrange medical imaging solution.

Maximize operational efficiency

R730 servers let you to construct and manage highly efficient infrastructures for data centers and small businesses. Accelerate time-to-production with automated deployment processes that use fewer manual steps and reduce the potential for error. Improve IT productivity with innovative at-the-server management tools like iDRAC Direct and iDRAC Quick Sync to deliver in-depth system health status and speed deployment, Optimize data center energy usage with improved performance-per-watt and more granular control of power and cooling.

Product Highlights

- Latest Intel Xeon processor E5-2600 v3 product family with up to 18 cores
- Up to 24 DIMMs of highcapacity DDR4 memory
- Up to 7 PCIe 3.0 expansion slots
- Up to 2 internal GPU accelerators
- Perfect for NFV and SDN. Supports VMware®, OpenStack, and other leading virtualization platforms

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TECHNICAL SPECIFICATIONS

Feature	Forge R730 - NEBS/ETSI Compliant Components
Form Factor	2U rack
Processor	2x up to 120W Intel® Xeon® E5-2600 v3 processors: • Intel Xeon E5-2695 v3 processor • Intel Xeon E5-2680 v3 processor • Intel Xeon E5-2658 v3 processor • Intel Xeon E5-2650 v3 processor • Intel Xeon E5-2640 v3 processor • Intel Xeon E5-2620 v3 processor • Intel Xeon E5-2609 v3 processor
Dimensions	H: 8.73cm (3.44in.)x W: 44.40 cm (17.49 in.) x D: 68.40 cm (26.92 in.)
Cache	2.5MB per core; core options: 6, 8, 10, 12, 14
Chipset	Intel® C610 series chipset
Memory*	Up to 768GB (24 DIMM slots); 4GB/8GB/16GB/32GBDDR4 RDIMM LVup to 2133MT/s
I/O Slots	Up to 7 PCIe3.0plus dedicated PERC slot
RAID Controller	Internal controllers: PERC S130 (SW RAID), PERC H330, PERC H730, PERC H730p
Drive Bays	**Internal hard drive bay and hot-plug backplane:** Up to 16 x 2.5"HDD: SAS, nearline; SAS; SSD: SAS, SATA
Internal storage options*	**3.5" drive options:** • 7.2K RPM NL SAS drives (1TB, 2TB, 4TB, 6TB) **2.5" drive options:** • 15K RPM SAS drives (300GB, 600GB) • 10K RPM SAS drives (300GB, 600GB, 1.2TB) **SAS SSD:** • Mixed use (200GB, 400GB, 800GB, 1.6TB) • Read intensive (800GB, 1.6TB) • Write intensive (200GB, 400GB, 800GB) **SATA SSD:** • Mixed use (200GB, 400GB, 800GB) • Read intensive (480GB) • Boot (120GB)
Embedded NIC options	Intel Ethernet i350 4x1Gb Intel X540 DP 10Gb Base-T + I350 DP 1Gb Intel X710 DP 10Gb DA/SFP+, + I350 DP 1Gb
I/O adapter options	**1Gb options** Broadcom® 5719 4x1Gb Broadcom 5720 2x1Gb Intel Ethernet I350 2x1Gb Intel Ethernet I350 4x1Gb **HBAs/CNAs** Emulex OneConnectOCe14102-U1-D 2x10Gb Emulex LPe12000 Single Port 8Gb FC Emulex LPe12002 Dual Port 8Gb FC QLogic2562 Dual Port 8Gb Optical FC **10Gb/40Gb options** QLogic57810 2x10Gb Base-T Intel Ethernet X520 2x10Gb DA/SFP+ Intel Ethernet X540 2x10Gb Base-T Intel Ethernet X710 2x10Gb DA/SFP+ Intel Ethernet X710 4x10Gb DA/SFP+ MellanoxConnectX-3 DP 40G DA/QSFP
Power Supplies	Efficient redundant hot swap 1100W DC or 1100W AC power supplies
Remote Management	iDRAC8 with Lifecycle Controller iDRAC8 Express (default), iDRAC8 Enterprise (upgrade option) 8GB vFlash media (upgrade option), 16GB vFlash media (upgrade option)
Rack support	ReadyRails™ Sliding Rails or 2/4-Post Static Rails

* 1GB means 1 billion bytes and TB equals 1 trillion bytes; actual capacity varies with preloaded material and operating environment and will be less.

For more information, please contact your Vector Data account manager.