

## Forge DL360p

### PRODUCT OVERVIEW

The Vector Data Forge DL360p Server provides exemplary enterprise class server performance with NEBS Level 3 and ETSI certification in a compact 1U size. Ideal for cloud, NFV, and SDN environments, it is designed for high-performance workloads, with adaptability for future requirements. This dual-processor server comes in a dense rack package and features the Intel®Xeon® E5-2600 family processor that is designed for improved performance and efficiency. It also comes with increased capacity, with 10 SFF, 8 SFF or 4 LFF drive models.

### Features

- **Smart Socket Guide:** Enables intelligent, precise, and quick processor installation or upgrade, which lowers the risk of downtime for your business.
- **Smart Carrier with cognitive drive activity:** Provides new, more intuitive drive activity and status indicators that enhance serviceability for easier management and reduced maintenance errors. The new carrier provides increased capacity, thus offering improved rack space and addressing additional power needs, with 33 percent increase in capacity footprint.
- **SmartMemory:** Authenticates memory, ensuring that the highest of quality standards are met. HP SmartMemory enables certain improved memory performances in addition to the processor or chipset specifications, resulting in better server performance. The server also offers a new 32 GB LRDIMM which gives a maximum capacity of 768 GB, and new 1600 MHz speed memory options for better performance up to 256 GB capacities.
- **FlexibleNetwork Adapters:** Offers you a choice of increased configuration flexibility and faster serviceability. Removable and replaceable, the new family of Flexible Networking solutions allows you to easily adopt a 4-port 1 GB solution, or implement a 2-port 10 GB, CNA, or InfiniBand solution as and when the need arises.
- **Sea of Sensors 3D:** Enables energy savings by facilitating more efficient fan usage to cool the server. The web of temperature sensors allows for precise and efficient cooling by providing a more complete, literally 3D view of temperature in the server so that server fans can direct cooling where it is most required.
- **Embedded firmware and update tools:** Enables automated scan and updates. This saves precious time and reduces complexity. And, with embedded, agentless management, you get health monitoring without loading operating system agents, which leads to better performance and management insight.



### Perfect for NFV

- **Latest OpenStack Release-based:** Based on OpenStack Kilo and Helion OpenStack 2.0 Enterprise Edition
- **Multi-region support for choice of hypervisors:** KVM, ESXi, or Baremetal region
- **SDN:** Integration with HPE Distributed Cloud Networking (DCN), enabling: policy driven network automation, DPDK-accelerated virtual switching,
- **Network function chaining** both Inter-region and across datacenters, support for 3rd party Load Balancer (F5), Firewall (Palo Alto Networks), IPAM (Infoblox)
- **Headless topology:** Easy expansion as KVM compute hosts are connected to the Helion OpenStack Carrier Grade controller over WAN in a micro-data center environment
- **Increased scalability:** Up to 50 KVM hosts
- **Deployment flexibility:** Helion OpenStack Carrier Grade 2.0 can be deployed as a VIM and NFVI solution on top of industry standard hardware as well as in the form of a hardware-software integrated solution with the NFV System product

### Product Highlights

- NEBS Level 3 and ETSI certified
- ENERGY STAR® certified
- Designed for extreme conditions such as high humidity, earthquakes, and dust
- Faster array controllers, and faster, lower voltage memory
- Perfect for NFV and SDN. Supports VMware®, OpenStack, and other leading virtualization platforms

## TECHNICAL SPECIFICATIONS

Feature	Forge DL360p Compliant Components
<b>Drive description</b>	10 SFF SAS/SATA/SSD, 8 SFF SAS/SATA/SSD, or 4 LFF SAS/SATA/SSD
<b>Supported drives</b>	Hot plug SFF 2.5-inch SAS, hot plug SFF 2.5-inch SATA, and hot plug SFF 2.5-inch SSD Hot plug LFF 3.5-inch SAS, hot plug LFF 3.5-inch SATA, and hot plug LFF 3.5-inch SSD
<b>CPU Cache</b>	20 MB L3, 15 MB L3, 10 MB L3, 5 MB L3 Depending on processor installed
<b>Processor</b>	1 or 2 Intel Xeon E5-2600 family
<b>Processor core available</b>	8, 6, 4, or 2
<b>Processor speed</b>	1.8 to 3.3 GHz
<b>Memory Slots</b>	24 DIMMs, with 4 channels
<b>Maximum memory</b>	768 GB maximum (256 GB maximum capacity/maximum speed @ 1600 MHz)
<b>Memory type</b>	DDR3 RDIMM, LRDIMM or UDIMM, HP SmartMemory
<b>Memory protection features</b>	Advanced ECC, online spare, memory lock-step mode
<b>Network controller</b>	FlexibleLOM 1Gb 331FLR Ethernet adapter on some models, and FlexibleLOM 10Gb 2-port 530FLR-SFP+ Ethernet Adapter on others; Options: 4-ports or 2-ports 10 GB, CNA, SFP+, FCoE, and InfiniBand solutions
<b>Storage controllers</b>	Smart Array P420i controller (optional flash back write cache [FBWC] 512 MB, 1 G, 2 G)
<b>Internal storage</b>	SATA, SAS, SSD (10 or 8) 2.5" hot plug bays optional (4) 3.5" hot-plug bays Includes bay for optional optical drive
<b>Maximum internal storage</b>	10 TB SFF (10 x 1 TB HDD) or 8 TB SFF (8 x 1 TB HDD) or 12 TB LFF (4 x 3 TB HDD)
<b>Expansion slots</b>	2x PCIe 3.0 slots for x16-FHHL, and x8 low profile option cards maximum, with HP exclusive tool-less quick access feature
<b>Remote management software</b>	iLO 4
<b>Full configuration form factor</b>	1U Rackmount
<b>Power supply and fan features</b>	Hot plug fully redundant
<b>Supported operating systems</b>	–Microsoft® Windows® Server Editions –Linux (Red Hat, SUSE, and United) –Oracle Solaris –VMware/XenSource/RH and SLES Xen/Microsoft Hyper-V
<b>Warranty</b>	Three-year parts, three-year labor

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