Forge DL380p

PRODUCT OVERVIEW

To accommodate explosive data growth, today's data center managers are forced to continually adopt new technologies and ever-more-efficient management tools. They also wrestle with pressing questions about how to keep pace with immediate demands while making wise strategic investments. The Forge DL380p is a 2U NEBS Level 3 and ETSI certified server, engineered to protect your server investment and extend the life of your data center with reliability, accessibility, and serviceability.

Increase performance, durability, and storage capacity

The Forge DL380p Server brings you:

• Higher performance, power efficiency and security via Intel Xeon E5-2600 and E5-2600 v2 processors, including Intel QuickPath, Integrated Memory Controller, Turbo Boost, Intelligent Power Technologies, Trusted Execution Technology, and Intel Secure Key and Intel OS Guard

• Greater memory bandwidth, DIMM count, and new memory health programs with less downtime with SmartMemory; new memory slots allow up to 768 GB of maximum memory and 512 GB at maximum speeds of 1866 MHz

• Complete data protection with embedded Smart Array P420i RAID controller, transportable Flash Backed Write Cache (FBWC), and RAID 6 options

• Quicker access to data, increased storage bandwidth, and cutting-edge storage performance with up to 25 SFF SmartDrives and new Smart Array RAID controllers

• Improved manageability with Smart Array technology

• Communication with Intelligent Power Distribution Units (PDUs) with high-efficiency (94% and 96% efficient) common-slot power supplies (460 W, 750 W, or 1200 W). Available ENERGY STAR® qualified configurations

• Customize your server's primary networking solution today and meet future needs with FlexibleLOM options (choice of 1 Gb, 10 Gb, 10 Gb Base-T, Ethernet, FCoE, or InfiniBand).

• Enhances serviceability with improved fan cage, baffle, and PCIe riser solutions; Smart Socket guides; and new thin cabling and cable guides

• Provides embedded provisioning tools, active health monitoring, and system maintenance capabilities built using the industry-leading Integrated Lights-Out (iLO) Management Engine

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

•   Intel® Xeon® E5-2600 and E5-2600 v2 series processors

•   4 Channels per DIMM and 24 memory DIMM slots

•   Up to 25 small form factor (SFF) or 12 large form factor (LFF) hard drives

•   Flexible Network options (FlexibleLOM)

•   Up to 6 PCIe slots

•   Perfect for NFV and SDN. Supports VMware®, OpenStack, and other leading virtualization platforms

VECTOR DATA™ ▶

TECHNICAL SPECIFICATIONS

Feature	Forge DL380p Compliant Components
Processor	Intel Xeon E5-2600 and E5-2600 v2 Series (up to 12 cores, up to 3.5 GHz)
Chipset	Intel C600
Memory	(24) DDR3 DIMMs, up to 1866 MHz, ECC, Lock-step, and Online Spare
Maximum memory	768 GB (24 DIMM slots x 32 GB LRDIMMs)
Internal storage	Supports SATA, SAS, or SSD drives (8+8 or 25) 2.5-inch hot plug bays/(8 or 12) 3.5-inch hot plug bays
Maximum internal storage	30 TB SAS (SFF); 48 TB SATA (LFF); 20 TB SSD (SFF)
Networking	1 FlexibleLOM
I/O slots	Choice of: 4x1 Gb, 2x10 Gb Ethernet, 2x10 Gb Base-T, or 2x10 Gb FlexFabric 6 PCIe slots: Riser 1 1x16 PCIe 3.0 FL/FH; 1x8 PCIe 3.0 HL/FH; 1x4 PCIe 2.0 HL/FH Riser 2 (Optional) 1x16 PCIe 3.0 FL/FH; 1x8 PCIe 3.0 HL/FH; 1x8 PCIe 3.0 HL/FH or 1x16 PCIe 3.0 FL/FH; 1x16 PCIe 3.0 HL/FH
Ports	Front: 2 USB; Rear: 4 USB, video (1600 x 1200), network; Internal: 1 USB, 1 SD Card
Power supplies	460 W, 750 W, 1200 W (92%, 94%, or 96% efficient) AC or DC hot plug redundant
Integrated management	iLO Management Engine
Additional features	Up to 2 double wide graphics cards supported
Form factor	2P/2U Rack

Redefine the server experience

• Automated Energy Optimization improves the server's ability to analyze and respond to "3D sea of sensors" data within the server.

• The server self-identifies location and inventory through Insight Control for maximum workload optimization across the entire data center.

• The server maintains precise control of server fans to direct cooling and reduce unnecessary fan power with the first 3D array of temperature sensors that is part of Thermal Discovery.

• Dynamic Workload Acceleration delivers smarter data protection for ever-increasing drive capacities, real-time workload-aware analysis to optimize and adapt storage performance, and 6x faster solid state performance versus the previous generation.

• User-inspired design features—SmartDrives, Smart Socket guide, flat cabling design, and easy tool-less access—anticipate your needs and help eliminate common issues that result in odowntime of customer-serviceable components.

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