HP ProLiant DL385 Packaged Cluster with MSA500 G2 - Overview

Product description

Server product features

Storage product features

Software overview

Link to warranty information

Link to drivers, firmwares, softwares and manuals

Link to QuickSpecs

Product description

CAUTION: THIS PRODUCT HAS BEEN IDENTIFIED AS A HIGH RISK MODEL FOR NO FAULT FOUND WITH HARD DRIVES AND MEMORY MODULES. SEE THE ORDERING LINKS BELOW.

	**The HP ProLiant DL385 Packaged Cluster with MSA500G2 is now available with the latest Dual-Core AMD OpteronTM processors Model 280 with expanded 1M L2 cache per server core and end-to-end Ultra 320 SCSI technology for higher performing servers.**

top

Server product features

Feature	Description
DL385 packaged cluster with MSA5000 G2 packaging	• 8U Configuration Fixture - Recyclable ABS • Unique cabling with positive identification (secured to storage configuration fixture) • Two 6 foot SCSI cables • One 6 foot Ethernet cross over cables • Shock resistant pallet
Documentation	Cluster set-up poster and configuration guide
Server	HP ProLiant DL385 server (Qty 2)
Processor (per server)	Dual-Core AMD Opteron 280 (2.4 GHz/1MB)
Cache memory (per server)	1MB Level 2 cache per core (per processor)
Upgradeability (per server)	Upgradeable to dual processing

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td>Chipset (per server)</td><td>AMD Opteron 8000 Series Chipset</td></tr>
<tr><td>Memory protection</td><td>Advanced ECC</td></tr>
<tr><td>Memory (per server)</td><td>
<table>
<tr><td>Type</td><td>PC3200 400MHz DDR</td></tr>
<tr><td>Standard</td><td>1GB (2 x 512MB)</td></tr>
<tr><td rowspan="2">Maximum</td><td>16GB using PC3200</td></tr>
<tr><td>32GB using PC2700 (4GB DIMMS)</td></tr>
</table>
</td></tr>
<tr><td>Network controller (per server)</td><td>NC7782 Dual Port PCI-X 1000T Gigabit Server Adapter (embedded)</td></tr>
<tr><td>PCI-X non hot-plug riser</td><td>
<table>
<tr><th>Expansion Slots (per server)</th><th>Slot Number</th><th>Bus Speed</th><th>Bus Number*</th><th>Device Number**</th><th>Hot Plug</th><th>PCI Voltage</th><th>NOTES</th></tr>
<tr><td rowspan="3"></td><td>1</td><td>64-bit/100MHz PCI-X</td><td>5</td><td>7</td><td>No</td><td>3.3 Volt</td><td>Universal cards are supported</td></tr>
<tr><td>2</td><td>64-bit/100MHz PCI-X</td><td>5</td><td>8</td><td>No</td><td>3.3 Volt</td><td>Universal cards are supported</td></tr>
<tr><td>3</td><td>64-bit/100MHz PCI-X</td><td>6</td><td>9</td><td>No</td><td>3.3 Volt</td><td>Universal cards are supported</td></tr>
</table>
NOTE: * Default bus assignment. Inserting cards with PCI bridges may alter the actual bus assignment number.
NOTE: ** Slots are enumerated differently based on OS. MS OS's enumerate from lowest to highest Device ID by bus (starting with the lowest bus).
NOTE: All slots can accept universal keyed PCI cards.
</td></tr>
<tr><td>Storage controllers (per server)</td><td>

Smart Array 6i Controller (Ultra320) (integrated on system board)
SCSI interconnect is provided by a Smart Array 642 Controller in server PCI slot

</td></tr>
<tr><td>Storage (per server)</td><td>
<table>
<tr><td>Optical Drive</td><td>24x IDE CD-ROM Drive (Universal Media Bay)</td></tr>
<tr><td>Hard Drives</td><td>None</td></tr>
</table>
</td></tr>
<tr><td>Maximum internal storage type (per server)</td><td>
<table>
<tr><td>Hot Plug SCSI</td><td>1.80TB</td><td>6 x 300GB Ultra320 HDD</td></tr>
</table>
</td></tr>
<tr><td>Interfaces (per server)</td><td>
<table>
<tr><td>Serial</td><td>1</td></tr>
<tr><td>Pointing Device (Mouse)</td><td>1</td></tr>
</table>
</td></tr>
</table>

Feature	Description
	Graphics: 1 Keyboard: 1 Network RJ-45: 3 (1 for iLO) USB 1.1 Ports: 3 (1 front, 2 back)
Graphics (per server)	Integrated ATI Rage XL Video Controller with 8-MB SDRAM Video Memory
Form factor (per server)	Rack 2U per server (3.5 in)
Industry standard compliance	• ACPI 2.0b Compliant • PCI-X and PCI 2.2 Compliant • WOL Support • Microsoft Logo certifications • USB version 1.1
Security	• Power-on password • Keyboard password • Diskette drive control • Diskette boot control • QuickLock, Network Server Mode • Serial interface control • Administrator's password • Disk configuration lock
Server power cords	Four (4) total Lowline power cords ship standard (per cluster) - US, Japan, Europe.
Power supply (per server)	• 575 W, CE Mark Compliant • Optional Hot Plug Redundant Power Supply Capability
System fans (per server)	5 hot plug fans ship standard. 8 hot plug fans total supported internally for full redundancy per server NOTE: The additional 3 fans are available via Redundant Fan Option Kit (PN 293048-B21)

top

Storage product features

Feature	Description
Storage	Modular Smart Array 500 G2 (Qty 1)
MSA500 G2 storage controller	Modular Smart Array 500 G2 Controller, redundant controller capable

<table>
<tr><th>Feature</th><th>Description</th></tr>
<tr><td>MSA500 G2 storage</td><td>
<table>
<tr><td>Drive bays</td><td>14 Hot pluggable</td></tr>
<tr><td>Hard Drives</td><td>None</td></tr>
<tr><td>Maximum Internal Storage</td><td>4.20TB (14 x 300GB Ultra320 HDD)</td></tr>
<tr><td>SCSI Hard Drive</td><td>Pre-failure warranty</td></tr>
</table>
</td></tr>
<tr><td>MSA500 G2 storage standard contents</td><td>

4U Modular Smart Array 500 G2
Modular Smart Array 500 G2 controller with 256MB cache
2-port SCSI I/O module
Redundant hot pluggable power supply/fans
Modular Smart Array 500 rack mounting kit
Power cables
2VHDCI SCSI cables (2) 6' each
Ethernet Crossover cable for clustering

</td></tr>
<tr><td>MSA500 G2 storage controller</td><td>

Modular Smart Array 500 G2 Controller U320 SCSI technology, redundant controller capable
4 SCSI Channels (2 Host; 2 INTL)

</td></tr>
<tr><td>MSA500 G2 host bus adapters</td><td>

Integrated Ultra320 Smart Array 6i Plus Controller on the servers
Smart Array 642 Controller (optional)

</td></tr>
<tr><td>MSA500 G2 cache memory</td><td>
<table>
<tr><td>256MB Read/Write Cache</td><td>Up to 512MB Read/Write Cache (optional)</td></tr>
<tr><td>ECC protection, battery backed, removable</td><td>NOTE: Optional storage memory allows the following configurations: 1 x 256MB or 2 x 256MB.</td></tr>
</table>
NOTE: When redundant controllers are installed, the cache configurations in both controllers must be identical.
</td></tr>
<tr><td>MSA500 G2 cache batteries</td><td>Up to three days of redundant battery life, removed for easy replacement</td></tr>
<tr><td>MSA500 G2 upgradeable firmware</td><td>2MB flashable ROM</td></tr>
<tr><td>MSA500 G2 power supply</td><td>

600 W (Dual) Power Supply, CE Mark Compliant
Fans integrated into each power supply, Redundant Functionality (Standard)

</td></tr>
<tr><td>MSA500 G2 disk drive and enclosure protocol support</td><td>Ultra320, Ultra3 and Ultra 2 SCSI Universal drives</td></tr>
<tr><td>DtS (DAS to SAN) technology</td><td>The Smart Array architecture provides a quick and easy way to migrate from the Modular Smart Array 500 G2 to the Modular Smart Array 1000 (MSA1000) for additional scalability.</td></tr>
</table>

Feature	Description
	In order to convert the Modular Smart Array 500 G2 to a SAN, simply remove the Modular Smart Array Controller(s) and replace them with StorageWorks MSA1000 Controller(s) and add FC I/O board or FC Switch (please refer to MSA 1000 QuickSpecs for additional SAN requirements information). This is referred to as DtS technology (DAS-to-SAN technology). In addition to convertibility to the SAN, the Modular Smart Array 500 G2 allows the seamless migration of stored data in ProLiant servers protected by Smart Array PCI controllers to a Modular Smart Array 500 system. Data that is currently stored on Universal disk drives using HP Smart Array controllers, as well as data on an RA4100 can easily be migrated to the Modular Smart Array 500 G2. Simply remove the drives from the older systems and insert them into the Modular Smart Array 500 G2. Existing data and configuration will remain intact. In addition, the RAID set and data will be preserved allowing migration to be completed in minutes, not hours.
MSA500 G2 form factor	Rack 4U
MSA500 G2 connector type	Ultra320 SCSI
MSA500 G2 ports	2 VHDCI; Ultra320 SCSI
MSA500 G2 bandwidth	320 MB/s
MSA500 G2 protocols supported	Ultra320 SCSI (320 MB/s per channel)
MSA500 G2 user interface	Controller display with Status Indicators (2) and Push Buttons (4) Status indicators on front of controller (16)
MSA500 G2 SCSI ports	2 external VHDCI connectors standard. Optional 4-port Shared Storage Module with 4 VHDCI connectors and multi-path software included.
MSA500 G2 logical drives	Up to 32 logical drives
MSA500 G2 RAID support	• Raid ADG (Advanced Data Guarding) • Raid 5 (Distributed Data Guarding) • Raid 1+0 (Striping and Mirroring) • Raid 1 (Mirroring) • Raid 0 (Striping)

top

Software overview

Operating system support

Feature	Description

Feature	Description	
OS support	Microsoft Cluster Service	• Microsoft Windows Server 2003 Enterprise Edition • Microsoft Windows 2000 Advanced Server
	Novell Cluster Service	Novell NetWare
	HP Service Guard Cluster Service for Linux	• Red Hat Enterprise Linux • UnitedLinux • SuSE Linux Enterprise Server
	SteelEye's LifeKeeper for Linux	• Red Hat Enterprise Linux • UnitedLinux • SUSE Linux Enterprise Server
	NOTE: For more complete and up-to-date information on how to buy server operating systems from HPE please visit the OS product site at: Click here for more information . NOTE: For a more complete and up-to-date listing of supported OSs and versions, please visit our OS Support Matrix Click here for more information . NOTE: For a more complete and up-to-date information on Linux support, please visit HPE Linux Web site at Click here for more information .	

ProLiant Essentials Foundation Pack Software

Feature	Description
HP systems insight manager	HP Systems Insight Manager (HP SIM) helps maximize system uptime and performance and reduce system maintenance costs by providing proactive notification of problems before those problems result in unplanned downtime or reduced productivity. For more information on HP SIM Click here for more information .
SmartStart	SmartStart simplifies server setup by providing a quick, easy way to deploy reliable and consistent server configurations. For more information, please visit the SmartStart Web site at Click here for more information . SmartStart version supported (minimum): SmartStart 7.10
Insight management agents	The Insight Management Agents provide direct, browser-based access to in-depth instrumentation built into HPE servers, workstations, desktops, or portables, and send alerts to Systems Insight Manager or other enterprise management applications in case of subsystem or environmental failures. For additional information about the Management Agents and other management products from HPE, Click here for more information .
Subscriber's choice	Subscriber's Choice Driver and Support Alerts/Notifications is a web-based email subscription service that provides automatic delivery of software and driver change notifications for ProLiant products. Sign up at Click here for more information . and customize your profile to receive alerts on updates as they become available.
ROMPaq, support software, and configuration utilities	The latest software, drivers, and firmware fully optimized and tested for your ProLiant server and options Available in SmartStart or downloadable from the Software and Drivers download pages at the following URL Click here for more information .

Feature	Description
Insight diagnostics	The most advanced configuration analysis, reporting and troubleshooting utilities used by HP and at your fingertips, available in SmartStart.
Optional ProLiant essentials value packs	Optional software offerings that extend the functionality of an Adaptive Infrastructure to address specific business problems and needs: • Rapid Deployment Pack (RDP) Is an automated deployment and provisioning solution for all ProLiant servers. RDP includes the ProLiant Integration Module featuring ProLiant server pre-configured events for OS installation, and optimized software drivers, firmware and management agents. Every RDP disc includes 7-day, 10-node trial licenses for evaluation purposes. RDP requires a license for each server deployed and is available for purchase with HP servers. Click here for more information . • Workload Management Pack Provides easier management of complex environments, improving overall server utilization and enabling Windows 2000 users for the first time to confidently deploy multiple applications on a single multiprocessor ProLiant Server. • Integrated Lights-Out Advanced Pack Upgrades the iLO 2 processor with comprehensive remote control including Virtual KVM graphical console, virtual media, power management and enterprise security. • Integrated Lights-Out Select Pack Upgrades the iLO 2 processor with virtual media, power management and enterprise security for text console environments. • Performance Management Pack A performance management solution that identifies and explains hardware performance bottlenecks on ProLiant servers and attached options enabling users to better utilize their valuable resources. • Intelligent Networking Pack Detects and analyzes network bottlenecks or broken network linkages and steers traffic to the optimum route based on network conditions, plus it provides an extra layer of protection. The virus throttle feature of the solution slows the propagation of fast spreading virus. • Vulnerability and Patch Management Pack Identifies and remediates software security vulnerabilities due to missing patches as well operating system configurations that can be exploited by viruses, worms, and other blended threats. • Virtual Machine Management Pack Provides central management and control of virtual machines from Microsoft and VMware. Integrated approach provides the ability to manage both physical and virtual resources from a single management console. • Server Migration Pack

Feature	Description
	The Server Migration Pack automates the manual processes required for migrating servers between physical or virtual platforms (P2V, V2P, and V2V). • Server Migration Pack - P2P Edition Upgrading or replacing your existing server? Effortlessly transition to new servers with automated, accurate and affordable migration of OS, application and data. • Accelerated iSCSI Pack Enables the embedded Multifunction network controller to serve as both a NIC and an iSCSI HBA providing access to SAN storage over the same connection used for networking. Processing of the protocol stack is offloaded to the NIC reducing CPU utilization and greatly improving the speed with which the requests are processed and sent to the network.

top

Link to warranty information

Click here to check the warranty status .

Click here for detailed information regarding worldwide limited warranty and technical support .

top

Link to drivers, firmwares, softwares and manuals

Click here to access the updated drivers, firmwares, softwares and manuals .

top

Link to QuickSpecs

Information for this Overview is taken from the product QuickSpecs. To access the complete QuickSpecs for this product, select the desired link from the following list:

- Click here to access the HP ProLiant DL385 Packaged Cluster with MSA500 G2 Worldwide QuickSpec in html format .
- Click here to access the HP ProLiant DL385 Packaged Cluster with MSA500 G2 Worldwide QuickSpec in .pdf format
- Click here to access the QuickSpec homepage, which provides access to the QuickSpecs for other regions/countries .

top

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