



470063-458 - HP ProLiant ML350 G4p Intel® Xeon® Processor 3.00 GHz 2MB 1GB 3x72GB HP SCSI SA642 USB DAT72 Tower Server



summary

The HP ProLiant ML350 G4p server is a traditional tower server refined with essential availability features to form a versatile, dependable backbone for expanding businesses and dedicated workgroups. The HP ProLiant family now includes a ProLiant ML350 server that combines fourth generation features with top notch performance and remote management capabilities. To complement our popular G4 features, the HP ProLiant ML350 G4p packs the latest Intel Xeon® processors with 2MB cache, DDR2 memory, Integrated Lights-Out management, and support for serial hard drives.

>> related accessories, supplies and services

technical features

- Intel® Xeon® processors with 2MB Level 2 cache
- 400 MHz DDR2 memory
- Support for up to 12 GB DDR2 memory
- Integrated Lights-Out (iLO) Standard for remote management
- Models supporting hot plug SATA and SAS hard drives
- Support for optional duplex SCSI backplane, redundant system fan, or second serial port
- Universal rail solution supporting both square and round hole rack environments
- PCI Express slots

technical specifications

Expansion slots	
Expansion slot	6 expansion slots: 1 - PCI-Express x4 (half length), 1 - PCI-Express x8, 2 -

	64-bit/100-MHz PCI-X, 1 - 64-bit/133-MHz PCI-X, 1 - 64-bit/66-MHz PCI-X
Expansion slots	6 expansion slots: 1 - PCI-Express x4 (half length), 1 - PCI-Express x8, 2 - 64-bit/100-MHz PCI-X, 1 - 64-bit/133-MHz PCI-X, 1 - 64-bit/66-MHz PCI-X
Memory	
Memory type	PC2-3200 DDR2 SDRAM (400MHz)
Memory type	PC2-3200 DDR2 SDRAM (400MHz)
Maximum memory	12 GB
Maximum memory	12 GB
Memory slots	6 slots
Standard memory	512 MB or 1 GB
Standard memory	1 GB standard memory
Memory slots	6 DIMM slots
Memory upgrade	Maximum - 12 GB
Memory upgrade	Maximum - 12 GB
Cache	Integrated 2 MB Level 2 cache
Internal cache	Integrated 2 MB Level 2 cache
Networking	
Network interface	Embedded NC7761 PCI 10/100/1000T Gigabit network adapter
Network interface	Embedded NC7761 PCI 10/100/1000T Gigabit network adapter
Ports	
I/O port	Parallel - 1; Serial - 1 (optional 2nd serial port available); Pointing Device (Mouse) - 1; Graphics - 1; Keyboard - 1; Network RJ-45 - 2 (1 dedicated for iLO); USB - 2; External SCSI knockouts - 2
External I/O ports	Parallel - 1; Serial - 1 (optional 2nd serial port available); Pointing Device (Mouse) - 1;

	Graphics - 1; Keyboard - 1; Network RJ-45 - 2 (1 dedicated for iLO); USB - 2; External SCSI knockouts - 2
Power	
Power availability	725 Watts
Power features	Hot plug models: 725 Watt, Power Factor Correction (PFC), Hot Plug 100 to 240 VAC Rated Input Voltage (Auto-sensing), CE Mark Compliant, Optional 2nd power supply for hot-pluggable 1 + 1 redundancy
Power requirements	100 to 120 VAC; 50 Hz to 60 Hz
Power supply type	Hot plug models: 725 Watt, Power Factor Correction (PFC), Hot Plug Voltage (Auto-sensing), CE Mark Compliant; Optional 2nd Power Supply for hot-pluggable (1+1 redundancy).
Processor	
Chipset	Intel® E7520 Chipset
Chipset	Intel® E7520 Chipset
Processor	Intel® Xeon® 3.40 GHz/800, 3.20 GHz/800 or 3.00 GHz/800 Processor
Processor type	Intel® Xeon® Processor 3 GHz
Processor speed	3 GHz
Multiple processor	Upgradable to dual processing
Number of processors	1 processor
Number of processors	1 or 2 supported
Processor upgrade	Up to 2 supported
Software	
Service & support	3 year parts, 3 year labor, 3-year on-site support
Compatible operating systems	Microsoft® Windows® Server 2003; Microsoft® Small Business Server 2003; Microsoft® Windows® 2000 Server and

	Advanced Server; Novell NetWare; Novell NetWare Small Business Suite; LINUX (Red Hat, SuSE)
Compatible operating systems	Microsoft® Windows® Server 2003; Microsoft® Small Business Server 2003; Microsoft® Windows® 2000 Server and Advanced Server; Novell NetWare; Novell NetWare Small Business Suite; LINUX (Red Hat, SuSE)
Storage	
Optical drives	48x IDE (ATAPI) CD-ROM Drive
Optical drives	48x IDE CD-ROM Drive
Flexible disk drive	1.44 MB Diskette Drive
Flexible disk drive	1.44 MB Diskette Drive
Hard disk drive	No hard disk drive in standard configuration
Internal hard disk drive	Three 72.8 GB Ultra320 Hot Plug SCSI 10,000 rpm Universal Hard Drive (1")
Hard disk drive speed	10,000 rpm
Hard disk speed	Not applicable
Optical drive type	CD-ROM
Pre-installed tape backup	HP USB DAT 72 Internal Tape Drive
Disk subsystem controller	Integrated Dual Channel Ultra320 SCSI Adapter (HP integrated 2 Port SATA controller with RAID 0/1 with support for RAID levels 0 and 1); Smart Array 641 Controller (Standard in Array Models only)
Internal drive bays	Six Hot Plug Drive Bays
Hard disk controller	Integrated dual channel Ultra320 SCSI adapter; HP Smart Array 642 RAID Controller
Internal mass storage	2.4 TB maximum hot plug SCSI (with optional drive cage & hard drives)
System	

Chassis	5U Tower or Rack
Chassis type	5U Tower
Manageability features	HP Systems Insight Manager; Management Agents; SmartStart; Subscriber's Choice; ROMPaq, support software, and configuration utilities; Insight Diagnostics Online Edition; Optional ProLiant Essentials Value Packs (Integrated Lights-Out Advanced Pack; Rapid Deployment Pack; Performance Management Pack; Intelligent Networking Pack; Vulnerability and Patch Management Pack; Virtual Machine Management Pack)
Manageability features	HP Systems Insight Manager; Management Agents; SmartStart; Subscriber's Choice; ROMPaq, support software, and configuration utilities; Insight Diagnostics Online Edition; Optional ProLiant Essentials Value Packs (Integrated Lights-Out Advanced Pack; Rapid Deployment Pack; Performance Management Pack; Intelligent Networking Pack; Vulnerability and Patch Management Pack; Virtual Machine Management Pack)
Security management	Power-on password; Setup password; Diskette boot control; Parallel and serial interface control; Disk configuration lock; Power switch security
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System bus	800 MHz Front Side Bus
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Features 01	Intel® Xeon® processors with 2MB Level 2 cache 400 MHz DDR2 memory Support for up to 12 GB DDR2 memory Integrated Lights-Out (iLO) Standard for remote management Models supporting hot plug SATA and SAS hard drives Support for optional duplex SCSI backplane, redundant system fan, or second serial port

	<p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 02	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 03	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 04	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 05	<p>Intel® Xeon® processors with 2MB Level 2 cache</p>

	<p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 06	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 07	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p> <p>Support for optional duplex SCSI backplane, redundant system fan, or second serial port</p> <p>Universal rail solution supporting both square and round hole rack environments</p> <p>PCI Express slots</p>
Features 08	<p>Intel® Xeon® processors with 2MB Level 2 cache</p> <p>400 MHz DDR2 memory</p> <p>Support for up to 12 GB DDR2 memory</p> <p>Integrated Lights-Out (iLO) Standard for remote management</p> <p>Models supporting hot plug SATA and SAS hard drives</p>

	Support for optional duplex SCSI backplane, redundant system fan, or second serial port Universal rail solution supporting both square and round hole rack environments PCI Express slots
Video	
Video adapter	Integrated ATI RAGE XL Video Controller
Video RAM	8 MB SDRAM Video Memory
Graphic card 01	Integrated ATI RAGE XL Video Controller
Graphic subsystem video card	up to 1200 x 1600 resolution supported
Video resolutions description	up to 1200 x 1600 resolution supported
Graphic subsystem video card memory 01	8-MB SDRAM Video Memory

environmental information

Non-operating humidity	5 to 90%
Operating temperature range	10° to 35° C
Acoustic pressure emissions	43 dB(A)
Non-operating humidity	5 to 90%
Acoustic pressure emissions	Rack: 43.0 dB(A); Tower: 43.0 dB(A)
Operating temperature range	10° to 35° C
Acoustic power emissions	6.0 B(A)

compliance information

Compliance industry	ACPI V2.0 Compliant; PCI 2.2 Compliant; PXE Support; WOL Support; PCI-X 1.0 Compliant; Novell Certified; Microsoft® Logo certifications, USB 2.0
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standards	
Compliance industry standards	ACPI V2.0 Compliant; PCI 2.2 Compliant; PXE Support; WOL Support; PCI-X 1.0 Compliant; Novell Certified; Microsoft® Logo certifications, USB 2.0

physical information

Dimensions, metric	22.00 x 64.00 x 46.80 cm (Tower) or 48.26 x 60.96 x 21.87 cm (Rack)
Weight, metric	27.24 kg
Weight	27.24 kg
Dimensions (W x D x H)	22 x 64 x 46.8 cm

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