

# HP ProLiant ML350 Generation 5 Server

Data sheet



## A rock-solid foundation for any size business

Finding the right technology for your growing business can be a challenge, but HP can help you narrow the field. The HP ProLiant ML350 Generation 5 (G5) Server is designed with reliability, expandability, performance and environmental features that continue to make it one of the most popular flexible tower servers in the world.

The best word to describe the ML350 G5 server is “dual.” Dual-socket, Dual-Core and Quad-Core Intel® Xeon® 5000 Sequence processors, dual-redundant hot plug power supplies, dual-redundant fans and the smaller, lighter and quieter dual-purpose chassis gives you the choice of 2.5-inch small form factor (SFF) or 3.5-inch large form factor (LFF) Serial Attached SCSI (SAS) or Serial ATA (SATA) drives. Plus, the modular chassis provides the flexibility to deploy in a tower or a rack environment.

## Ideal environments and applications

### Growing businesses running core applications

- Consistent server performance at an affordable price
- Reliable data protection
- Room for growth—maintain your competitive advantage by quickly and easily adding processors, memory, internal backup and I/O cards or convert the ML350 server to a rack environment when you need additional servers onsite

### Branch offices and remote sites

- No onsite server management required—use Integrated Lights-Out 2 (iLO 2) to remotely manage the server anytime from nearly anywhere
- Redundant components provide increased server uptime
- Reduced acoustics and powerful tools for server installation, deployment and management

“Our HP (ProLiant ML350 G5) platform helps our staff work better and smarter—and makes Tri-Center a stronger school system. We can do more than ever before thanks to our HP solution, which provides a stable IT environment and reduces technical-support costs.”

– Brett Nanninga, Superintendent,  
Tri-Center Community School District

### Key features and benefits

The ML350 G5 is a flexible tower server with essential availability features that offer a versatile, dependable backbone for expanding businesses and dedicated workgroups.

#### A reliable foundation

Whether your business supports data and transactions for five users or 500, you can count on the ML350 to be available and online with the help of essential availability features.

- In the unlikely event of a system power, thermal, memory or disk error redundant power, fans, memory and disk options help the ML350 server continue to support your business.
- Hot plug support for HP universal hard drives and power supplies keeps your business running and simplifies upgrades and part replacements.
- SAS and SATA RAID are now standard on the ML350 server, making storage more reliable and affordable.

#### Affordable performance for greater value

The ML350 server combines the latest dual-core and quad-core processor technology, serial performance I/O and memory technology at a price that fits SMB budgets.

- Eight PC2-5300 slots support up to 16 GB on dual-core and 32 GB on quad-core 667 MHz FB-DIMM memory
- Up to two Dual-Core or two Quad-Core Intel Xeon 5000 Sequence processors with 4 MB L2 cache
- Five media bays for the ultimate in internal expansion capability
- Dual-redundant fan option
- Three PCI Express slots and three 64-bit PCI-X slots
- Support for up to eight SFF or six LFF SAS or SATA hard drives

### Complete tools for savvy system management

Like a trusted business partner, the ML350 server is accessible and easy to work with. Together, HP ProLiant Essentials software and Lights-Out remote management make server installation and management a snap.

- At installation, SmartStart (included in the HP ProLiant Essentials Foundation Pack that ships with the ML350 server) gets your server up and running in three easy steps.
- Once the installation is complete, HP Systems Insight Manager software keeps an eye on your server so that staff members can focus on priority projects. Alerts on system status can be delivered to you based on parameters you determine.
- When you need to make system changes, iLO 2 lets you view the server console remotely and install updates anytime—even when the system operating system is down. A blue unit ID (UID) on the server notifies those onsite when someone is accessing the server.

### Adapts to conquer new business opportunities

Clever businesses know that technology is one of the best ways to gain a competitive edge. The ML350 gives your business infrastructure the runway it needs to gain that edge.

- Processor and memory upgrades support additional users and boost response times.
- Rack the ML350 server when physical location needs change.
- Incorporate tape backup solutions to protect business data.
- Attach a wide variety of external storage and backup devices as data storage needs increase and change.

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<b>Processors supported</b>	<p>Quad-Core Intel Xeon processors:</p> <p>X5355: 2.66 GHz, 1333 MHz FSB<sup>1</sup></p> <p>E5345: 2.33 GHz, 1333 MHz FSB<sup>1</sup></p> <p>E5335: 2.0 GHz, 1333 MHz FSB<sup>1</sup></p> <p>E5320: 1.86 GHz, 1066 MHz FSB</p> <p>E5310: 1.60 GHz, 1066 MHz FSB</p> <p>Dual-Core Intel Xeon processors:</p> <p>5160: 3.00 GHz, 1333 MHz FSB<sup>1</sup></p> <p>5150: 2.66 GHz, 1333 MHz FSB<sup>1</sup></p> <p>5140: 2.33 GHz, 1333 MHz FSB</p> <p>5130: 2.00 GHz, 1333 MHz FSB</p> <p>5120: 1.86 GHz, 1066 MHz FSB</p> <p>5110: 1.60 GHz, 1066 MHz FSB<sup>1</sup></p> <p>5080: 3.73 GHz, 1066 MHz FSB<sup>1</sup></p> <p>5060: 3.20 GHz, 1066 MHz FSB</p> <p>5050: 3.00 GHz, 667 MHz FSB<sup>1</sup></p>
<b>Processor cores</b>	Quad and dual
<b>Number of processors</b>	1-2
<b>Cache</b>	<p>8 MB L2 (2 x 4 MB) (5300 Series)</p> <p>4 MB L2 (1 x 4 MB) (5100 Series)</p> <p>4 MB L2 (2 x 2 MB) (5000 Series)</p>
<b>Standard/maximum memory</b>	512 MB (entry models) or 1 GB (base models)/ 16 GB (dual-core) or 32 GB (quad-core)
<b>RAM type/speed</b>	PC2-5300 FB-DIMMs 667 MHz
<b>Maximum internal storage</b>	1.80 TB
<b>Drives supported</b>	<p>Up to 8 (SFF):</p> <p>Hot plug SFF SAS 15K 72/36 GB</p> <p>Hot plug SFF SAS 10K 146/72/36 GB</p> <p>Hot plug SFF SATA 5.4K 120/60 GB</p> <p>Up to 6 (LFF):</p> <p>Hot plug LFF SAS 15K 300/146/72/36 GB</p> <p>Hot plug LFF SATA 7.2K 750/500/250/160/80 GB</p>
<b>Hard drive controller</b>	HP Smart Array E200i SAS/SATA controller
<b>Media bays</b>	5
<b>Memory protection</b>	Online spare, advanced ECC
<b>Form factor</b>	Tower or 5U rack
<b>Expansion slots</b>	<p>3 x PCI Express x8 (x4 speed)</p> <p>1 x 64-bit 133 MHz PCI-X</p> <p>2 x 64-bit 100 MHz PCI-X</p>
<b>Operating systems supported*</b>	<p>Microsoft® Windows® Server 2003/R2</p> <p>Microsoft Small Business Server 2003/R2</p> <p>Microsoft Windows 2000 Server and Advanced Server</p> <p>SCO OpenServer 5.0.7/6.0</p> <p>SCO UnixWare 7.1.3/7.1.4</p> <p>Novell NetWare Novell NetWare Small Business Suite</p> <p>Linux® (Red Hat, SUSE)</p>
<b>Warranty (parts/labor/onsite)</b>	3-year/3-year/3-year

<sup>1</sup> Factory-integrated only

## HP Services

HP Services provides nearly continuous care and support expertise with committed response designed to meet your IT and business needs. To fully capitalize on your ProLiant server capabilities, you need a service partner who thoroughly understands your server technology and systems environment. HP Services, an industry leader in provision of multi-vendor support solutions, provides a range of support services designed to meet the varying needs of business. Whether a small- or medium-size organization or a large global corporation, HP has ProLiant Server Care Pack support to help you quickly deploy and improve system uptime.

HP Care Pack Services cost-effectively upgrade or extend your standard warranty with easy-to-buy, easy-to-use support packages. They reduce downtime risks with support levels that range from basic to mission-critical. Care Pack Services are available for purchase with your ProLiant ML350 G5 server.

- **Extended Care**—nearly continuous work-through for problem resolution. *ProLiant ML350 G5 Server—3-year, 13x5 same-business-day 4-hour response coverage.*
- **Committed Repair**—increase IT performance and availability. *ProLiant ML350 G5 Server—3-year 24x7 same-business-day 4-hour response coverage.*
- **Committed Repair**—increase IT performance with a repair-time commitment that provides increased availability. *ProLiant ML350 G5 Server—3-year 24x7 same-business-day with 6-hour commitment from call-to-repair.*
- **Deployment Services**—HP Installation and Start Up Services are designed to take time, risk and worry out of the deployment of ProLiant servers—and free your IT team to focus on what they do best, meeting your business needs. *ProLiant ML350 G5 Server Installation and Start-Up Services*

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