

### Overview

### HPE ProLiant Easy Connect Managed Hybrid Servers



Reduce the need for expensive full-time IT staffing on-site without compromising quality. HPE ProLiant Easy Connect Managed Hybrid Servers are remotely managed services offered through Hewlett Packard Enterprise's best in class service provider partner network, delivered as a 1-year, 3-year, or 5-year subscription paid monthly or annually. Supported by dedicated engineering and operations teams, and embedded with rigorously tested network, security, and cloud integration, the solution provides secure and reliable access to Windows, Linux, and SaaS applications.

#### **Simplified Remote IT Management**

- Patched, updated and upgraded. No manual patching or system management of core server services required, reducing your server administration effort by 90%
- Preconfiguration in the cloud and automated installation sets up IT in hours, not days.

#### **Lower TCO on IT Services**

- Reduce costs of staffing full-time IT staff on-site with remote management.
- Realize up to 60% lower total cost of ownership compared to traditional on-premises server, software and network solutions.

## Overview

- Subscription based 1-year, 3-year, or 5-year contracts with monthly and annual payments means predictable IT costs (monthly payments available through HPE Financial Services).

### Enterprise Security and Reliability

- Built on industry leading HPE ProLiant servers and Intel Xeon-D/Xeon-E processors.
- A resilient appliance with cloud backup, disaster recovery, and next business day hardware repair services help ensure business continuity. Software and data can be restored rapidly from local backup or cloud backup, minimizing the risk of downtime.
- On-site data redundancy and seamless business continuity using optional high availability clustering with active-active workload balancing.
- Keep Current service keeps line of business applications, network, and internet security functions updated.
- Critical DNS and DHCP network services on-premises and ICSA certified firewall gateway to the Internet protect LAN-side applications, data, and users.
- Internet security using IPsec and VPN for secure remote access to services.

### Sized for Schools and Small Business Operations

- HPE ProLiant Easy Connect Managed Hybrid solutions support a complete range of IT for schools of up to 700 students per campus.
- Resources for hosting local management and learning environments are combined with integration to common cloud applications, data backup and disaster recovery services.

---

## Who is it for?

|                                       |  |
|---------------------------------------|--|
| <b>Retail</b>                         | No matter the where your businesses are located, standardize the build and rollout across all distributed stores while managing it centrally through the cloud. Easy Connect's keep current services ensures that all your retail business on-site applications remain updated and monitored. When used with best practices, VLAN and remote monitoring help to maintain PCI compliance to protect the credit cardholder environment from security breaches. |
| <b>Enterprise Branch</b>              | For multi-site, remote offices and branch IT, the HPE ProLiant Easy Connect Managed Hybrid Servers are delivered as a fully managed on-site server, preconfigured and easily deployed across various sites. Local VLANs, file storage, printer sharing and private cloud VMs offer enterprise grade IT for even the smallest branch office, all managed remotely.  |
| <b>Small and Mid-sized Businesses</b> | Designed for organizations with 5 to 150 IT users per site, the solution supports a complete range of hybrid IT scenarios, delivering core IT functions out of the box while providing a secure, reliable platform for line-of-business applications and behind-the-firewall data. Offered as a service for a predictable subscription price, HPE ProLiant Easy Connect make enterprise grade IT affordable for even the smallest office.                    |
| <b>Education</b>                      | HPE ProLiant Easy Connect Managed Hybrid solutions support a complete range of IT for schools of up to 700 students per campus. Resources for hosting local management and learning environments are combined with integration to common cloud applications, data backup and disaster recovery services.   |

---

## What's New?

### Virtual Machine Control Console

- Easy Connect 2.1 enhances the Commissioning Console to give IT service providers control over how server resources are allocated to custom workloads when deploying servers.
- File Share sizing and resource allocation (storage, CPU and RAM) to Custom VMs will be supported, self-serve, in the Commissioning Console without requiring the Easy Connect Support Team to set them up as a service.

## Overview

### Integration with ConnectWise and Autotask

- Simplified operations management with ConnectWise and Autotask integration.
- Manage, track, resolve, and report high priority service issues from Easy Connect within your Professional Services Automation console.
- Maintain records and synchronize tickets automatically between Zendesk and PSA systems.

### 5-Year Contracts

- Even longer predictable payment assurance, better savings, and TCO than our 1-year and 3-year contracts.

---

## Easy Connect Solution Product

ProLiant Easy Connect has everything an office requires for local networking, file sharing, virtualization and security. A unique combination of hardware, software, and services offer a range of benefits unavailable in off-the-shelf servers or proprietary enterprise solutions.

### Remotely Managed

- Worry-free IT. Configured, monitored, and remotely managed by experts dedicated to helping you.
- Monitoring Console. Optional access for IT teams or your IT partner for detailed multi-site monitoring from a single interface.
- Local Dashboard. User Control Console provides easy to understand per-appliance service status monitoring.
- Aruba Central Integration. Wi-Fi Protected Access Enterprise for better Wi-Fi security, including guest Wi-Fi. Integrated console lets users see the overall status of Aruba Wi-Fi Access Points through the Monitoring Console, with a quick link to visit the full Aruba Central management platform.

### Keep Current Service

- Keep Current. IT and curated apps are patched and updated by the Hewlett Packard Enterprise automated processes.
- Keep Secure. Secure, monitor and automatically identify both internal and external security threats.
- Keep Integrated. Integrated and updated to make use of optional cloud backup and the ability to deploy Same Sign-on to Office 365 cloud apps.
- Keep Running. Self-healing architecture and the Hewlett Packard Enterprise on-going performance monitoring and tuning.

### File & Printer Sharing

- File Share. Individual file storage and group file shares on resilient high-performance disk arrays.
- Printer Sharing. Straightforward access to local printers for all users.

### Compute Resources

- Custom Virtual Machines. Compute capacity to host on-premises apps. Allocate CPUs, RAM and storage to virtual machines for local applications that run securely behind the firewall.

### User Management

- User Control Console. Individual user and group administration.
- Active Directory. Industry-leading user credential management included and installed on-premises.

### Support

- System Care. Next business day repair of appliance hardware with HPE Care (subject to regional availability).
- Support. You and your IT partners are backed by the Hewlett Packard Enterprise DevOps team and modern IT support systems. Office hours support line and online.

### Scale with ML110

- Support up to 150 IT users and 700 students with Easy Connect, now available on ProLiant ML110 Gen9 Server. Available in 8, 10, or 14-cores.

## Overview

### Windows Server and RDS

#### Windows Server Standard

- Single Instance for VMs. Windows Server 2012 is supplied as a subscription price for deployment in to the IaaS Virtual Machines on the Easy Connect Server.

#### Windows Server Datacenter

- Multiple Instances for VMs. Windows Server 2012 Datacenter license available as a subscription price for unlimited Windows IaaS VMs.

#### Remote Desktop Services

- Microsoft RDS platform ready for your users' desktop applications. RDS services are fully monitored and kept current by Hewlett Packard Enterprise. Desktop configuration and contents are managed by your IT team or IT partner.  
**NOTE: Two or more Windows Server licenses must also be purchased to host RDS services.**

#### Microsoft Azure Tokens from HPE

- Receive \$500 credit to Microsoft Azure services with the purchase of a ProLiant Easy Connect server (limited to 1 token per server; maximum of 5 tokens per customer). For more details, please see the Microsoft Azure Token from HPE site: <http://www.hpe.com/servers/azuretoken>

### Software Support

#### 24/7 Software Support Upgrade

- 24x7 HW support.
- 24x7 SW support on Priority 1 and 2 issues.
- Available contract terms for 1, 3, or 5 years.  
**NOTE: Premium SW support can ordered with all HW models of EC200a and Easy Connect ML110 configurations (Base, Standard, Premium).**
- More details at <https://support.prolianteasyconnect.com/hc/en-us/articles/208031775-Service-Level-Agreement>.

### Resilience

#### High Availability

- High Availability clustering (requires communication board option). Removes single-points-of-failure from the solution by clustering two appliances, delivering 99.9% service availability. Active-active deployment with workload balancing. Data and VMs are automatically distributed across the two servers in the HA cluster.

### Gateway Products

#### Security and Control

- Firewall. ICSA certified firewall gateway to the Internet protects LAN-side applications, data and users.
- Web Filter (UK only). Enables blocking of inappropriate web content in real-time. The URL categorization engine makes it easy to block websites in over 140 categories.
- Bandwidth Control. Control and visualization of network traffic at a fine-grained level.
- Virus-Blocker. On-the wire anti-virus scanning automatically scans HTTP, FTP and SMTP traffic.

### Cloud Backup and Disaster Recovery Product

#### Business Continuity

- Cloud Backup. Nightly backup (every 24 hours) of the entire system to cloud storage. 30 days guaranteed data retention with ability to restore any files backed up in the past 30 days.

## Overview

- Disaster Recovery. Temporary access to user data and apps in the cloud in the event of a major outage, followed by restoration to your hardware.
- High Availability. Cluster two EC200a or ML110 servers to protect against data loss and business disruption in the event of hardware or network failure. If HPE's software detects system failure on one server, all running services on the failed server are automatically switched over to the second server with minimal user disruption.

## Standard Features

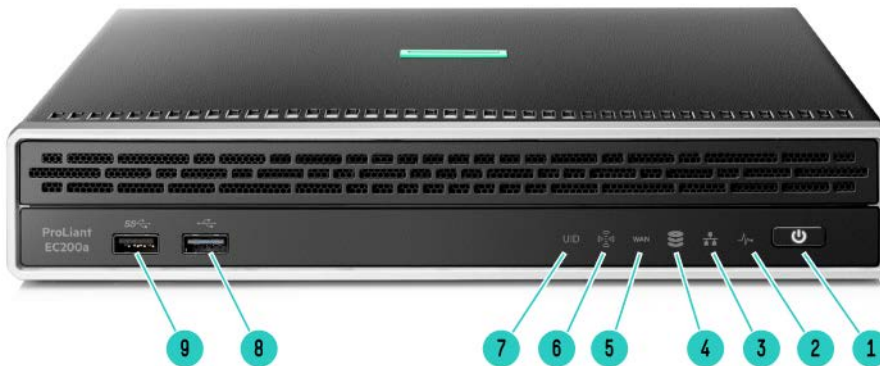
### HPE ProLiant EC200a and ML110 Servers

Preconfigured ProLiant server platforms are tightly integrated with compute, storage, networking, and virtualization hardware, and combined with Zynstra's remote management and virtualization technology and cloud services. Simple to deploy and set up, HPE's partners can provide all of customers' IT needs with a range of platform options, enabling customers to scale on demand with the right blend of local and cloud IT for their business. Whether business customer workloads are on-premises, in the cloud, or both, the HPE ProLiant Easy Connect portfolio has the products, services, and solutions for every phase of growth.

### HPE ProLiant Easy Connect EC200a Server



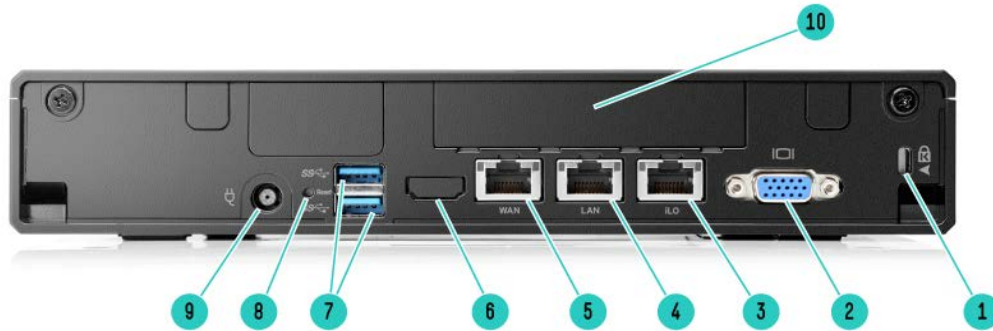
The HPE ProLiant Easy Connect EC200a Server is similar in size to a set-top box, designed to be showcased on an office desk, or wall mounted for your convenience. Architected with proven Intel® Xeon® processor and solid state disk (SSD) flash drives to meet the performance needs of critical workloads, it can support 5-50 active users with a comprehensive set of IT services. Custom workloads can be added to include at least 2-3 small virtual machines at 2GB RAM each. For heavier workloads, combine with 8TB or 16TB Managed Server Expansion Kits for a maximum of 24TB raw hard drive capacity.



## Standard Features

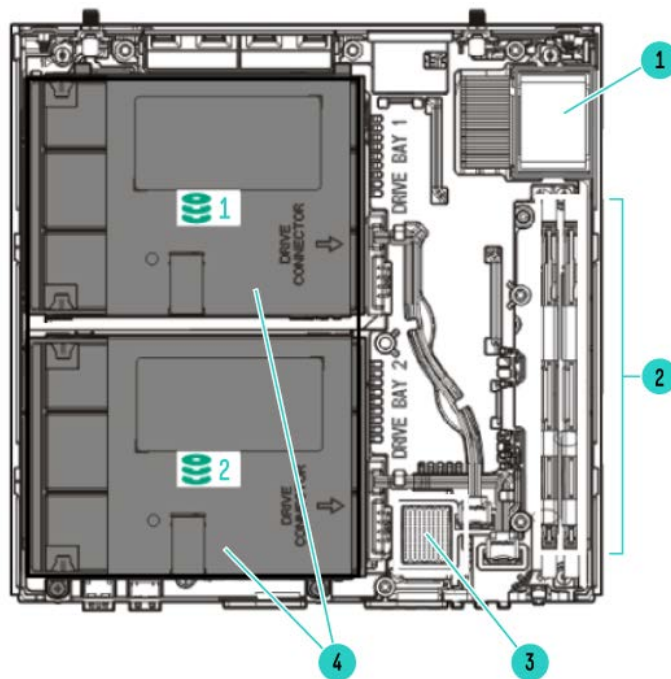
### Front View:

- |  |                                  |
|--|----------------------------------|
| 1. Power On/Standby button and system power LED button | 6. Wireless LED                  |
| 2. Health LED  | 7. UID (unit identification) LED |
| 3. LAN LED   | 8. USB 2.0 Connector             |
| 4. HDD LED   | 9. USB 3.0 Connector             |
| 5. Broadband LED                                       |                                  |



### Rear View:

- |                                       |  |
|---------------------------------------|--|
| 1. Kensington Security Slot           | 6. Reserved  |
| 2. Video Connector                    | 7. USB 3.0 Connectors                              |
| 3. Dedicated iLO Management Connector | 8. Reset Button                                    |
| 4. LAN Connector (NIC 2)              | 9. Power Adapter Connector                         |
| 5. WAN Connector (NIC 1)              | 10. Optional NIC card slot for Communication Board |



### Interior of system detail – LFF chassis shown:

- |                            |  |
|----------------------------|--|
| 1. System Fan              | 3. LFF HDD (2)   |
| 2. Two (2) DDR4 DIMM slots | 4. Communication Board Connector (for High Availability) |

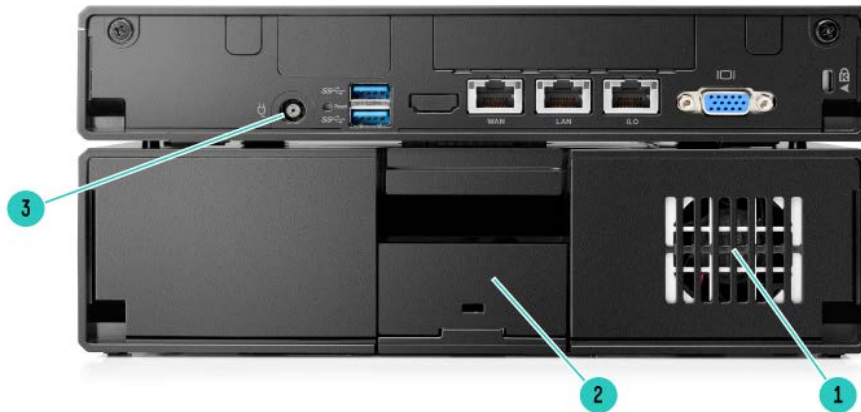


## Standard Features

### HPE Managed Server Storage Expansion



The Managed Server Storage Expansion is specifically designed to match the stylish design of the EC200a. Simple one click attachment to the EC200a server gives triple the total storage capacity; 4TB to 12TB total on the EC200a Base model and 8TB to 24TB total on the EC200a Premium model.



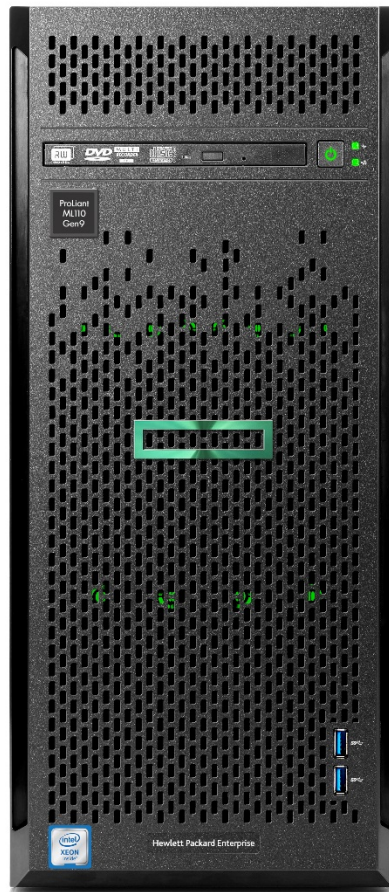
#### Rear View:

1. System Fan
2. Docking connector  
**NOTE: Newer models use attach clips.**
3. Power adapter connector (180W)



## Standard Features

### HPE ProLiant Easy Connect ML110 Server

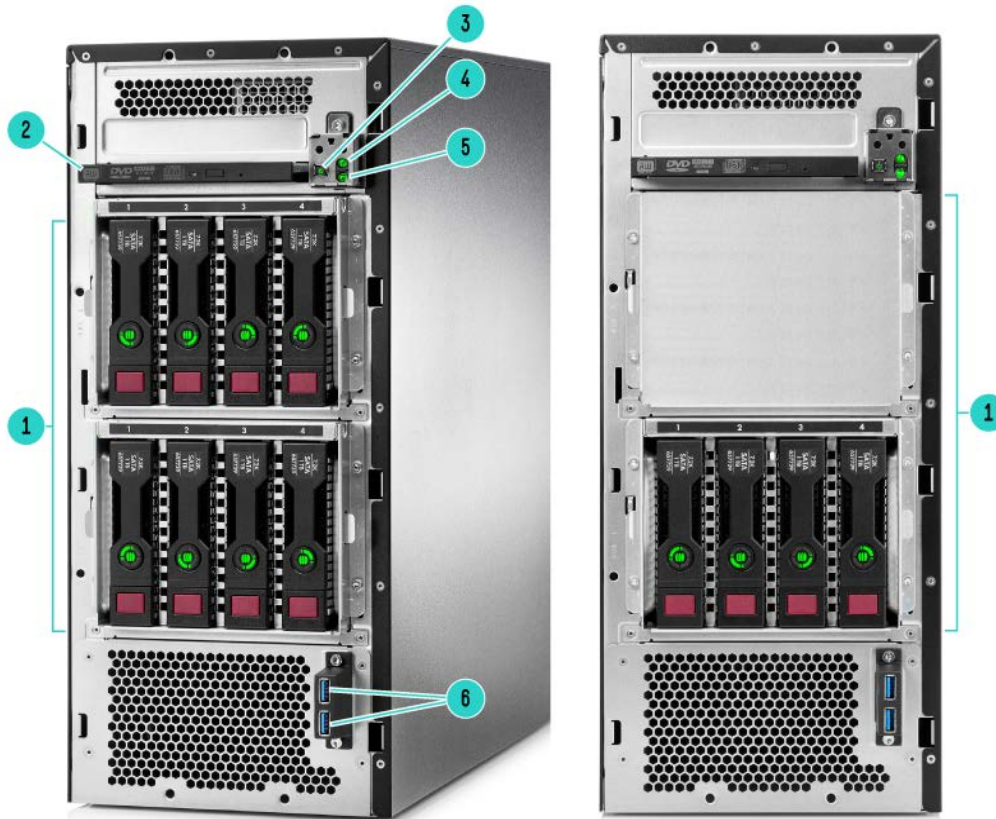


The HPE ProLiant Easy Connect ML110 Server is based on the HPE ProLiant ML110 Gen9 Server, a 1P/ 4.5U affordable single-socket tower server featuring better performance, expansion, and growth than previous 1P single-socket tower models. Designed to meet small and mid-sized businesses' performance compute demands for workloads of 50 - 150 active users, the solution delivers exceptional value at an affordable price.

Choose from one of 3 ML110 configurations: Base, Standard, or Premium. All configurations are tied to a core-based license subscription to the Easy Connect software, starting with the 8-core Easy Connect ML110 Base, to 10-core Easy Connect ML110 Standard, and to the 14-core Easy Connect ML110 Premium.

Standard Features

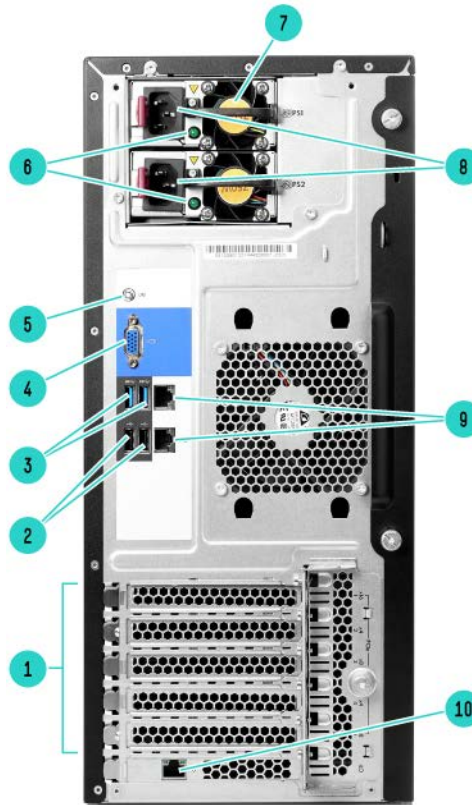
4 LFF Model



Front View (8LFF photo used for 4LFF):

- 1. Drive cage (1)
- 2. Optical drive (optional)
- 3. Power Button/LED
- 4. Health LED
- 5. NIC status LED
- 6. USB 3.0 (2)

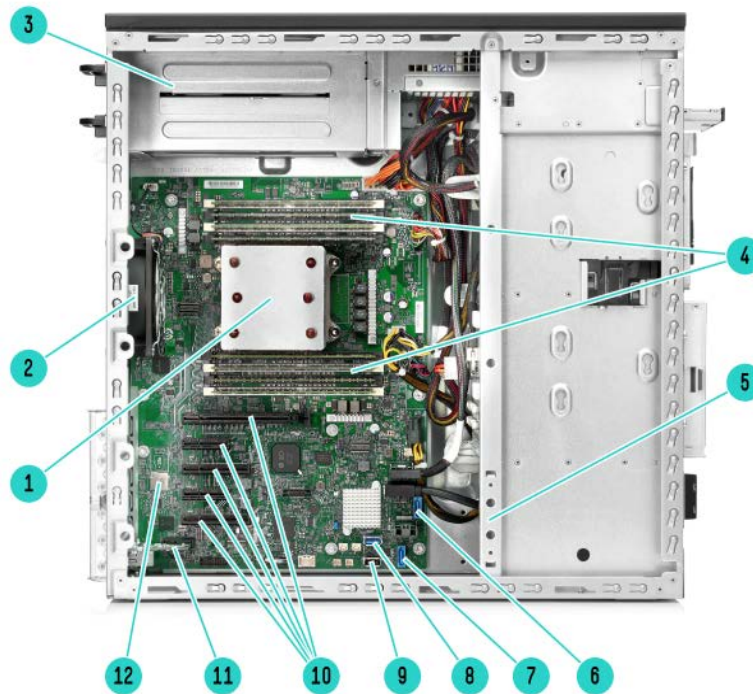
## Standard Features



### Rear View:

- |                            |   |
|----------------------------|---|
| 1. PCIe3 Slots (Slots 1-5) | 6. Power supply LED                               |
| 2. USB 2.0 (2) connectors  | 7. Power supply fan                               |
| 3. USB 3.0 (2) connectors  | 8. Power supply power connection                  |
| 4. Video connector         | 9. Network RJ-45 ports (2)                        |
| 5. UID button/LED          | 10. HPE ML Gen9 dedicated iLO port kit (optional) |

## Standard Features



### Internal View:

1. One (1) processor and heatsink with HPE Smart Socket Guide
2. System Fan (92x32mm default), upgrade system fan (92x38mm) is required for 140W Workstation Processor and SAS SSD
3. Power Supply
4. Eight (8) DDR4 DIMM slots
5. PCIe fan (option required to support PCIe expansion cards)
6. Front USB 3.0 connector
7. SATA connector 1
8. Internal USB 3.0 connector
9. Internal USB 2.0 connector
10. Five (5) PCIe3 expansion slots
11. Dedicated iLO module slot (optional)
12. MicroSD slot

## Pre-Configured Models

### Choosing the Right Easy Connect Server

With a number of combinations of server and storage expansion to choose from, you need to choose the right solution to meet your requirements for core IT functions, data storage and application workloads.

Easy Connect simplifies your choice by ensuring that high-performance, resilience, and data integrity are built-in to the hardware and configuration of every server.

Our TCO tool for Managed Service Providers can help determine whether you can reduce costs by moving your services to Easy Connect. Get started with the HPE ProLiant Easy Connect TCO

Calculator: [https://roianalyst.alinean.com/hp\\_roianalyst/Welcome.do](https://roianalyst.alinean.com/hp_roianalyst/Welcome.do)

It's still important to match the needs of your organization to the right server type. Ask yourself these questions:

- How much storage capacity is needed for on-premises file sharing?
- How many extra Virtual Machines (VMs) are required for custom applications?
- How much storage is required for custom VM data files?

Answering these questions will allow you to confidently choose the correct HPE ProLiant Easy Connect Managed Hybrid Server for your needs.

|                                   | <b>EC200a Base</b>                               | <b>EC200a Base + Expansion</b>                      | <b>EC200a Premium</b>                               | <b>EC200a Premium + Expansion</b>                   |
|-----------------------------------|--|---|---|---|
| <b>Typical Active Users</b>       | 5-50 IT Users                                    |   |   |   |
| <b>Typical School Size</b>        | 50-300 Students                                  |   |   |   |
| <b>Typical Custom VM Capacity</b> | 3 Small VMs<br>(2GB RAM each)                    | 3 Small VMs<br>(2GB RAM each)                       | 5 Medium VMs<br>(4GB RAM each)                      | 5 Medium VMs<br>(4GB RAM each)                      |
| <b>Physical Disks</b>             | 2 x 2TB SATA 7.2K<br>HDD<br>With 160GB SSD Cache | 6 x 2TB SATA 7.2K<br>HDD<br>With 160GB SSD<br>Cache | 2 x 4TB SATA 7.2K<br>HDD<br>With 250GB SSD<br>Cache | 6 x 4TB SATA 7.2K<br>HDD<br>With 250GB SSD<br>Cache |
| <b>Usable Storage*</b>            | 370GB-550GB                                      | 1450GB-2100GB                                       | 900GB-1300GB  | 3000GB-4500GB                                       |
| <b>CPU</b>                        | Intel Xeon D-1518<br>4 Cores, 2.2GHz             |   |   |   |
| <b>Virtual CPU Cores</b>          | 8  |   |   |   |
| <b>Physical Memory</b>            | 32GB DDR4  |   | 64GB DDR4   |   |
| <b>Custom VM Memory**</b>         | 6GB  |   | 30GB  |   |
| <b>Network</b>                    | 1Gbps WAN<br>1Gbps LAN<br>iLO                    |   |   |   |

QuickSpecs

HPE ProLiant Easy Connect Managed Hybrid Servers

Pre-Configured Models

|                                   | ML110 Base  | ML110 Standard                                   | ML110 Premium                                       |
|-----------------------------------|---|--|---|
| <b>Typical Active Users</b>       | 5-150 IT Users                                    |  |   |
| <b>Typical School Size</b>        | 300-700 Students                                  |  |   |
| <b>Typical Custom VM Capacity</b> | 1 Medium & 3 Large VMs<br>(up to 8GB RAM each)    | 2 Large & 1 X-Large VMs<br>(up to 12GB RAM each) | 1 X-Large & 4 XX-Large VMs<br>(up to 16GB RAM each) |
| <b>Physical Disks</b>             | 6 x 2TB SATA 7.2k HDD<br>With 150GB SSD Cache     | 6 x 3TB SATA 7.2K HDD<br>With 150GB SSD Cache    | 8 x 4TB SATA 7.2K HDD<br>With 150GB SSD Cache       |
| <b>Usable Storage*</b>            | 1400GB-2100GB                                     | 2200GB-3300GB                                    | 4000GB-6000GB                                       |
| <b>CPU</b>                        | Intel Xeon E5 2620v4<br>8 Cores, 2.1GHz           | Intel Xeon E5 2640v4<br>10 Cores, 2.4GHz         | Intel Xeon E5 2660v4<br>14 Cores, 2.0GHz            |
| <b>Virtual CPU Cores</b>          | 16  | 20   | 28  |
| <b>Physical Memory</b>            | 64GB DDR4   | 64GB DDR4  | 128GB DDR4  |
| <b>Custom VM Memory**</b>         | 30GB  | 30GB   | 78GB  |
| <b>Network</b>                    | 1Gbps WAN<br>1Gbps LAN<br>4 Port 1Gbps NIC<br>iLO |  |   |

\* Usable Storage can be allocated to the File Share and custom applications deployed in to VMs. Values show approximately how much 'live' working data can be stored. The server ensures this data is then:

- Mirrored across multiple physical disks
- Duplicated to a local back-up
- Allocated sufficient capacity for temporary system files, caching and performance purposes

Actual capacity varies depending on services being deployed. Examples ranges shown are for all capacity allocated to File Share (the larger number) through to all capacity being allocated to custom Virtual Machines (the smaller number). Users not purchasing the Cloud Backup and Disaster Recovery service will be provisioned with a larger local back-up area to ensure it can function as their primary backup location, reducing the maximum useable storage.

\*\* Custom VM Memory capacity represents estimated memory resources available to custom applications deployed in to VMs.

## Pre-Configured Models

### HPE ProLiant Easy Connect EC200a WW Model

|  | Base Model   | Premium Model   |
|--|--|---|
| <b>Model Name</b>                            | HPE EC200a D1518 NHP<br>Base Server  | HPE EC200a D1518 NHP<br>Premium Server  |
| <b>Localization</b>                          | US/UK  |   |
| <b>Part Number</b>                           | US 851796-001<br>UK 851796-421   | US 851797-001<br>UK 851797-421  |
| <b>Processor Model</b>                       | Intel® Xeon® D-1518<br><b>NOTE:</b> For more information regarding Intel Xeon processors, please see the following <a href="http://www.intel.com/xeon">http://www.intel.com/xeon</a> . |   |
| <b>Heatsink</b>                              | Customize  |   |
| <b>Fan</b>                                   | 1  |   |
| <b>Number of Processors</b>                  | 1  |   |
| <b>Processor Spec (Cores/GHz/Watt/MHz)</b>   | 4/2.2GHz/35W/DDR4 2133   |   |
| <b>Memory</b>                                | HPE Standard Memory DDR4   |   |
| <b>Memory Type</b>                           | 32GB DDR4 Unbuffered (UDIMM) (2 x 16GB)  | 64GB Registered (RDIMM) (2 x 32GB)  |
| <b>Memory MHz</b>                            | 2133MHz  | 2400MHz<br><b>NOTE:</b> Due to chipset constraint, the maximum memory speed support up to 2133 MHz. |
| <b>DIMM Slots Available</b>                  | 2  |   |
| <b>Memory Protection</b>                     | Error Correcting Code (ECC)<br>Memory protects businesses data from data loss and unplanned system downtime.   |   |
| <b>M.2 SSD</b>                               | 128GB  | 256GB   |
| <b>Smart Store Battery</b>                   | No   |   |
| <b>Backplane</b>                             | None   |   |
| <b>HDD</b>                                   | 2 x 2TB LFF SATA HDD   | 2 x 4TB LFF SATA HDD  |
| <b>Networking</b>                            | 2 x 1Gb Embedded<br>1 x 1GbE<br>Dedicated iLO NIC  |   |
| <b>VGA/Serial/USB</b>                        | 1 VGA/ 0 Serial/ 3 USB (USB3.0/2.0), 1 USB (USB2.0)  |   |
| <b>Storage Controller</b>                    | Embedded SATA controller (SW RAID 0/1 Support)   |   |
| <b>Software 3<sup>rd</sup> Party Image</b>   | Yes  |   |
| <b>Power Supply</b>                          | HPE 120W Power Supply (89% efficiency)   | HPE 120W FIO Power Supply (89% efficiency)  |
| <b>Fan</b>                                   | (1) Non-Hot-Plug FAN   |   |
| <b>Network RJ-45 (Ethernet)</b>              | 2  |   |
| <b>HPE iLO VGA Port</b>                      | 1  |   |
| <b>Dedicated Management NIC Port for iLO</b> | 1  |   |
| <b>USB 3.0</b>                               | 3  |   |
| <b>USB 2.0</b>                               | 1  |   |
| <b>Expansion Slots</b>                       | No   |   |
| <b>ODD</b>                                   | None   |   |
| <b>Rail Kit</b>                              | None   |   |



QuickSpecs

HPE ProLiant Easy Connect Managed Hybrid Servers

Pre-Configured Models

|                            |  |
|----------------------------|--|
| <b>SID</b>                 | No SID   |
| <b>Universal Media Bay</b> | None   |
| <b>Operating System</b>    | Ubuntu<br>Windows Server 2012  |
| <b>Upgradeability</b>      | HPE EC200a Expansion box<br>Security Bezel   |
| <b>Industry Standard</b>   | PCIe M.2 Compliant   |
| <b>Compliance</b>          | Microsoft® Logo certifications<br>USB 3.0 Support  |
| <b>Warranty</b>            | 3/3/3 Foundation Care Warranty: 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. |

HPE Managed Server Storage Expansion Kit

|                     | Base Model                                 | Premium Model                               |
|---------------------|--|---|
|                     | <b>NOTE: For EC200a Base model only.</b>   | <b>NOTE: For EC200a Premium model only.</b> |
| <b>Model Name</b>   | HPE Managed Server 8TB EU/US Expansion Kit | HPE Managed Server 16TB EU/US Expansion Kit |
| <b>Localization</b> | US/UK                                      |   |
| <b>Part Number</b>  | US/UK 854159-B21                           | US/UK 861161-B21                            |
| <b>HDD Support</b>  | 4LFF SATA HDD                              |   |
| <b>HDD Capacity</b> | 4 x 2TB                                    |   |
| <b>Fan</b>          | 1  |   |
| <b>Power Supply</b> | HPE 180W Power Supply                      |   |

HPE EC200a System Unit

|                             |   |                     |
|-----------------------------|---|---------------------|
| <b>Dimensions</b>           | 25.4cm x 25.4cm x 4.7cm   |                     |
| <b>Weight</b>               | Minimum   | 3.42 Lb (1.55 kg)   |
| (approximate)               | Maximum   | 8.13 Lb (3.69 kg)   |
|                             | Minimum   | 9.02 Lb (4.09 kg)   |
|                             | (with expansion box)  |                     |
|                             | Maximum   | 19.67 Lb (8.92 kg)  |
|                             | (with expansion box)  |                     |
| <b>Input Requirements</b>   | Range Line  | 100 to 240 VAC, 17A |
|                             | Rated Input Frequency   | 50 to 60 GHz        |
| <b>Power Specifications</b> | To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <a href="http://www.hpe.com/info/hppoweradvisor">http://www.hpe.com/info/hppoweradvisor</a> .     |                     |
| <b>Power Supply Output</b>  | Voltage   | 19.5V               |
|                             | Output Current  | 6.15A               |
|                             | Output Power  | 120W                |
| <b>System Ambient</b>       | 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°C per every 305 m (1.8°F per every 1000 ft) above sea level to a maximum of 3050 m (10,000 ft), no direct sustained sunlight. Maximum rate of |                     |

**Pre-Configured Models**

change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed.

|                          |               |  |
|--------------------------|---------------|--|
| <b>Relative Humidity</b> | Operating     | The unit shall be fully functional from 10% to 90% relative humidity, 28°C maximum wet bulb temperature, (non-condensing) across the operating temperature range of 0°C to 40°C. |
|                          | Non-operating | 5 to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.  |

**Acoustic Noise** Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

|                  | <b>EC200a alone</b> | <b>EC200a with Expansion</b> |
|------------------|---------------------|------------------------------|
| <b>Idle</b>      |                     |                              |
| L WAd            | 4.2 Bels            | 4.7 Bels                     |
| L pAm            | 28.7 dBA            | 32.7 dBA                     |
| <b>Operating</b> |                     |                              |
| L WAd            | 4.9 Bels            | 5.5 Bels                     |
| L pAm            | 35.4 dBA            | 41.7 dBA                     |

**NOTE:** EC200a tested included one Intel® Xeon® D-1518 2.2GHz processor, two 4TB SATA 3.5" HDD, one system fan, two 16GB DDR4 RDIMM's 2400MHz, one 256GB M.2.

**NOTE:** EC200a with Expansion tested included one Intel® Xeon® D-1518 2.2GHz processor, six 4TB SATA 3.5" HDD, two system fans, two 16GB DDR4 RDIMM's 2400MHz, one 256GB M.2.

**NOTE:** Values are subject to change without notification and are for reference only.

**NOTE:** Acoustics levels presented here accounts for test configuration only and acoustics level will vary depending on system configuration.

|  |                   |         |
|--|-------------------|---------|
| <b>Emissions Classification</b><br>(EMC) | <b>FCC Rating</b> | Class B |
|--|-------------------|---------|

**HPE EC200a High Availability**

|                                |  |                    |
|--------------------------------|--|--------------------|
| <b>Dimensions</b>              | 50.8cm x 50.8cm x 9.4cm  |                    |
| <b>Weight</b><br>(approximate) | Minimum  | 6.84 Lb (3.10 kg)  |
|                                | Maximum  | 16.26 Lb (7.38 kg) |
| <b>Input Requirements</b>      | Voltage, Current   | 19V, 3.5A          |
|                                |  | 3.3V, 0.5A         |
| <b>Warranty</b>                | 3/3/3 Foundation Care Warranty: 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. |                    |

**HPE Managed Server Storage Expansion System Unit**

|                                |  |                    |
|--------------------------------|--|--------------------|
| <b>Dimensions</b>              | 25.4cm x 25.4cm x 6.8cm  |                    |
| <b>Weight</b><br>(approximate) | Minimum  | 5.6 Lb (2.54 kg)   |
|                                | Maximum  | 11.54 Lb (5.23 kg) |
| <b>Input Requirements</b>      | Voltage, Current   | 19V, 3.5A          |
|                                |  | 3.3V, 0.5A         |
| <b>Warranty</b>                | 3/3/3 Foundation Care Warranty: 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. |                    |

## Pre-Configured Models

### EC200a Hardware Options

**NOTE:** Please choose either the Storage Expansion or the Cradle Kit/Wall Mount Kit. Cradle Kit or Wall Mount Kit cannot be used while the Storage Expansion is installed.

|   |            |
|---|------------|
| HPE Managed Server 8TB EU/UK Storage Expansion  | 854159-B21 |
| HPE Managed Server 16TB EU/US Storage Expansion | 861161-B21 |
| HPE Managed Server Cradle Kit                   | 854160-B21 |
| HPE Managed Server Wall Mount Kit               | 854161-B21 |

**NOTE:** Some options may not be integrated at the factory. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for additional information.

### HPE ProLiant Easy Connect ML110 WW Model

|  | HPE Easy Connect<br>ML110 Base Server                          | HPE Easy Connect<br>ML110 Standard Server | HPE Easy Connect<br>ML110 Premium Server              |
|--|--|---|---|
| <b>SKU Number</b>                          | 776934-B21 (select in Easy Connect configurator)               |   |   |
| <b>Processor</b>                           | Intel Xeon E5 2620V4   | Intel Xeon E5 2640V4                      | Intel Xeon E5 2660V4                                  |
| <b>GHz</b>                                 | 2.1GHz   | 2.4GHz                                    | 2.0GHz  |
| <b>Number of Processors</b>                | 1  |   |   |
| <b>Number of Cores</b>                     | 8 Core   | 10 Core                                   | 14 Core   |
| <b>DIMM Slots</b>                          | 8 DIMM slots for RDIMM, LRDIMM DDR4 Memory                     |   |   |
| <b>Storage Controller</b>                  | HPE Dynamic Smart Array B140i                                  |   |   |
| <b>PCIe</b>                                | 5 PCIe 3.0 Slots   |   |   |
| <b>Network Controller</b>                  | Broadcom 5717 Dual-port 1GbE                                   |   |   |
| <b>Fans</b>                                | 1 non hot plug, non-redundant                                  |   |   |
| <b>Management</b>                          | iLO Management (standard), Intelligent Provisioning (standard) |   |   |
| <b>USB</b>                                 | 2 front, 2 internal, 4 rear                                    |   |   |
| <b>Memory</b>                              | 64GB STD<br>(4 x 16GB Registered DIMMs)                        |   | 128GB STD<br>(4 x 32GB Registered DIMMs)              |
| <b>Hard Drive</b>                          | 12TB LFF SATA HDD<br>(6 x 2TB)                                 | 18TB LFF SATA HDD<br>(6 x 3TB)            | 32TB LFF SATA HDD<br>(8 x 4TB)                        |
| <b>Hard Drive Cage</b>                     | 4LFF Hot Plug  |   |   |
| <b>Power Supply</b>                        | HP 550W ATX Gen 9 PS   |   | HP 750W Common Slot Gold<br>Hot Plug Power Supply Kit |
| <b>M.2 SSD</b>                             | HP 150GB M.2 SSD Kit   |   |   |
| <b>Network Controller</b>                  | 1Gb 4-port 366T Adapter  |   |   |
| <b>iLO Port</b>                            | HPE Dedicated iLO Management Port Kit                          |   |   |
| <b>Imperial Dimensions<br/>(D x H x W)</b> | 18.92 x 17.32 x 7.68 in  |   |   |
| <b>Metric Dimensions<br/>(D x H x W)</b>   | 48.05 x 44 x 19.5 cm   |   |   |
| <b>Imperial Weight</b>                     | 27.56lb (Minimum)<br>55lb (Maximum)                            |   |   |
| <b>Metric Weight</b>                       | 12.5 kg (Minimum)<br>24.9 kg (Maximum)                         |   |   |

## Pre-Configured Models

---

**Warranty**

3/3/3 Foundation Care Warranty: 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response.

## Technical Specifications

### HPE ML110 Gen9 System Unit

|                                 |  |  |
|---------------------------------|--|--|
| <b>Dimensions</b>               | 17.32(H) x 7.68(W) x 18.92(D) in (44 x 19.5 x 48.05 cm)  |  |
| <b>Weight</b><br>(approximate)  | Minimum  | 27.56 Lb (12.5kg)  |
|                                 | Maximum  | 55 Lb (24.9kg)   |
| <b>Input Requirements</b>       | Range Line Voltage   | 100 to 240 VAC   |
|                                 | Range Line Current   | For 350W & 550W Power Supply:8A (at 100~240 VAC)   |
|                                 | Rated Input Frequency  | 50 to 60 GHz   |
| <b>BTU Rating</b>               | Maximum  | For 550 W Power Supply:2204 BTU/hr (at 100 VAC), 2113 BTU/hr (at 200 VAC)<br>For 350 W Power Supply:1452 BTU/hr (at 100 VAC), 1544 BTU/hr (at 200 VAC)   |
| <b>Power Specifications</b>     | To review typical system power ratings use the Power Advisor which is available via the online tool located at URL: <a href="http://www.hpe.com/info/hppoweradvisor">http://www.hpe.com/info/hppoweradvisor</a> .  |  |
| <b>Power Supply Output</b>      | Rated Steady-State Power   | For 550 W Power Supply:550 W (at 100 VAC),550 W (at 200 VAC)   |
|                                 | Maximum Peak Power   | For 350 W Power Supply:350 W (at 100 VAC),350 W (at 200 VAC)   |
| <b>System Inlet Temperature</b> | Standard Operating Support   | 10° to 35°C (50° to 95°F) at sea level with an altitude derating of 1.0°Cper every 304.8 m (1.8°F per every 1000 ft) above sea level to a maximum of 3048 m (10,000 ft), no direct sustained sunlight. Maximum rate of change is 20°C/hr (36°F/hr). The upper limit and rate of change may be limited by the type and number of options installed. System performance during standard operating support may be reduced if operating with a fan fault or above 30°C (86°F). |
|                                 | Extended Ambient Operating Support   | For approved hardware configurations, the supported system Operating Support Inlet range is extended to be: 5° to 10°C (41° to 50°F) and 35° to 40°C (95° to 104°F) at sea level with an altitude derating of 1.0°C per every 175 m (1.8°F per every 574 ft) above 900 m (2953 ft) to a maximum of 3048m (10,000 ft).  |
|                                 | The approved hardware configurations for this system are listed at the URL: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a> .  |  |
|                                 | For approved hardware configurations, the supported system inlet range is extended to be: 40° to 45°C (104° to 113°F) at sea level with an altitude derating of 1.0°C per every 125 m (1.8°F per every 410 ft) above 900 m (2953 ft) to a maximum of 3048 m (10,000 ft). The approved hardware configurations for this system are listed at the URL: <a href="http://www.hpe.com/servers/ashrae">http://www.hpe.com/servers/ashrae</a> . |  |
|                                 | System performance may be reduced if operating in the extended ambient operating range or with a fan fault.<br><b>NOTE: Supports A3 extended ambient.</b>  |  |
| <b>Relative Humidity</b>        | Non-operating  | -30° to 60°C (-22° to 140°F). Maximum rate of change is 20°C/hr (36°F/hr).   |
|                                 | Operating  | Minimum to be the higher (more moisture) of -12°C (10.4°F) dew point or 8% relative humidity. Maximum to be the lower (less moisture) of 24°C (75.2°F) dew point or 90% relative humidity.   |
|                                 | Non-operating  | 5% to 95% relative humidity (Rh), 38.7°C (101.7°F) maximum wet bulb temperature, non-condensing.   |

**Technical Specifications**

|                 |               |  |  |
|-----------------|---------------|--|--|
| <b>Altitude</b> | Operating     | 3048 m (10,000 ft). This value may be limited by the type and number of options installed. Maximum allowable altitude change rate is 457m/min (1500 ft/min). |  |
|                 | Non-operating | 9144 m (30,000 ft). Maximum allowable altitude change rate is 457m/min (1500 ft/min).  |  |

**Acoustic Noise** Listed are the declared A-Weighted sound power levels (LWAd) and declared average bystander position A-Weighted sound pressure levels (LpAm) when the product is operating in a 23°C ambient environment. Noise emissions were measured in accordance with ISO 7779 (ECMA 74) and declared in accordance with ISO 9296 (ECMA 109).

**Idle**

|              |          |                                     |
|--------------|----------|-------------------------------------|
| <b>L WAd</b> | 4.2 Bels | 3.6 Bels (LFF Non Hot-Plug Base)    |
|              |          | 3.6 Bels (LFF Hot-plug Base)        |
| <b>L pAm</b> | 28.7 dBA | 4.1 Bels (LFF Hot-plug Performance) |
|              |          | 21 dBA (LFF Non Hot-Plug Base)      |
|              |          | 27 dBA (LFF Hot-plug Performance)   |

**Operating**

|              |          |                                     |
|--------------|----------|-------------------------------------|
| <b>L WAd</b> | 4.9 Bels | 3.6 Bels (LFF Non Hot-Plug Base)    |
|              |          | 3.7 Bels (LFF Hot-plug Base)        |
|              |          | 4.2 Bels (LFF Hot-plug Performance) |
| <b>L pAm</b> | 35.4 dBA | 21 dBA (LFF Non Hot-Plug Base)      |
|              |          | 21 dBA (LFF Hot-plug Base)          |
|              |          | 25 dBA (LFF Hot-plug Performance)   |

**NOTE:** Configurations tested for LFF non hot-plug based models included one (1) 1TB LFF SATA Midline HDD and Windows 2012 Enterprise 64-bit.

**NOTE:** Configurations tested for LFF hot-plug base models included one (1) 1TB LFF SATA Midline HDD and Windows 2012 Enterprise 64-bit.

**NOTE:** Configurations tested for LFF hot-plug performance models included four (4) 2TB LFF SATA Midline HDD and Windows 2012 Enterprise 64-bit.

**NOTE:** The Listed sound levels apply to standard shipping configurations. Additional options may result in increased sound levels.

|                                       |                            |   |
|---------------------------------------|----------------------------|---|
| <b>Emissions Classification (EMC)</b> | <b>FCC Rating</b>          | Class B   |
|                                       | <b>Normative Standards</b> | CISPR 22; EN55022; EN55024; FCC CFR 47, Pt 15; ICES-003; CNS13438; GB9254; K22;K24; EN 61000-3-2; EN 61000-3-3; EN 60950-1; IEC 60950-1 |

**NOTE:** Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

|   |   |                                |
|---|---|--------------------------------|
| <b>HPE Dynamic Smart Array B140i Controller</b> | <b>Number of PCI Links</b>              | Four                           |
|   | <b>PCI Link Rate</b>                    | 4Gb/s                          |
|   | <b>Storage Protocol Support</b>         | SATA                           |
|   | <b>SAS/SATA Peak Data Transfer Rate</b> | 6Gb/s                          |
|   | <b>Number of SAS/SATA Links</b>         | 10 links                       |
|   | <b>SAS/SATA Connectivity</b>            | 2x4 connectors; 2x1 connectors |
|   | <b>Expander Support</b>                 | No                             |
|   | <b>Drives Supported (Max)</b>           | Up to 10 Internal Drives       |

Technical Specifications

|   |  |   |  |
|---|--|---|--|
|   | <b>RAID Support</b>  | 0, 1, 10, 5 SATA  |  |
|   | <b>Software Management</b>   | HPE SSA, SMH, SIM   |  |
|   | <b>Warranty</b>  | Server warranty   |  |
|   | <b>HPE Secure Encryption License</b>   | Not Supported   |  |
|   | <b>HPE Smartcache License</b>  | Not Supported   |  |
|   | <b>Hpe Smart Storage Administrator</b>   | Supported   |  |
| <b>HPE Ethernet 1Gb 2-port 330i Adapter</b>       | <b>Network Interface</b>   | 10Base-T/100Base-TX/1000Base-TX   |  |
|   | <b>Compatibility</b>   | IEEE 802.3 10Base-T<br>IEEE 802.3ab 1000Base-T<br>IEEE 802.3u 100Base-TX  |  |
|   | <b>Data Transfer Method</b>  | PCI Express, two lanes (x2)   |  |
|   | <b>Controller</b>  | BCM5717   |  |
|   | <b>Network Transfer Rate</b>   | 10Base-T (HalfDuplex)   | 10 Mb/s per port, 40 Mb/s combined     |
|   |  | 10Base-T (FullDuplex)   | 20 Mb/s per port, 80 Mb/s combined     |
|   |  | 100Base-TX (HalfDuplex)   | 100 Mb/s per port, 400 Mb/s combined   |
|   |  | 100Base-TX (FullDuplex)   | 200 Mb/s per port, 800 Mb/s combined   |
|   |  | 1000Base-TX (Half-Duplex)   | 1000 Mb/s per port, 4000 Mb/s combined |
|   |  | 1000Base-TX (Full-Duplex)   | 2000 Mb/s per port, 8000 Mb/s combined |
| <b>Connector</b>                                  | RJ-45  |   |  |
| <b>Cable Support</b>                              | 10 Base-T Categories 3, 4 or 5 UTP; up to 328 ft (100 m)<br>10/100/1000 Base-TX Category 5 or higher UTP; up to 328 ft (100 m) |   |  |
| <b>Environment-friendly Products and Approach</b> | <b>End-of-life Management and Recycling</b>  | Hewlett Packard Enterprise offers end-of-life product return, trade-in, and recycling programs, in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner. |  |

<http://www.hpe.com/recycle>

The EU WEEE directive (2002/95/EC) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the Hewlett Packard Enterprise web site. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.

<http://www.hpe.com/recycle>



## Solution Features and Subscription Options

### Easy Connect Subscription SKUs

**NOTE:** Available in US and UK.

|   | 1yr Contract | 3yr Contract | 5yr Contract | 1yr Renewal<br>for 1yr<br>Contract | 1yr Renewal for<br>3yr Contract |
|---|--------------|--------------|--------------|------------------------------------|---------------------------------|
| <b>Software Options<br/>(All Platforms)</b>               |              |              |              |                                    |                                 |
| RDS per user  | P9C11A       | Q0C92A       | Q2B68A       |                                    |                                 |
| RDS Non-commercial per User                               | P9C10A       | Q0C91A       | Q2B67A       |                                    |                                 |
| 24x7 SW Support Upgrade                                   | Q0P84A       | Q0P85A       | Q2B63A       |                                    |                                 |
| Web Filter/500 (UK only)                                  | P9C16A       | Q0C97A       | Q2B73A       |                                    |                                 |
| Backup DR per TB  | P9C00A       | Q0C90A       | Q2B66A       |                                    |                                 |
| <b>EC200a Software Products</b>                           |              |              |              |                                    |                                 |
| EC200a Base Subscription                                  | P9C05A       | Q0C98A       | Q2B74A       | Q0P88A                             | Q0P89A                          |
| EC200a Premium Subscription                               | P9C07A       | Q0D00A       | Q2B76A       | Q0Q87A                             | Q0Q88A                          |
| EC200a Windows Server Standard                            | P9C13A       | Q0C94A       | Q2B70A       |                                    |                                 |
| EC200a Windows Server Datacenter Appliance                | P9C15A       | Q0C96A       | Q2B72A       |                                    |                                 |
| EC200a Base Non-commercial Subscription                   | P9C06A       | Q0C99A       | Q2B75A       | Q0P86A                             | Q0P87A                          |
| EC200a Premium Non-commercial Subscription                | P9C08A       | Q0D01A       | Q2B77A       | Q0P90A                             | Q0P91A                          |
| EC200a Non-commercial Windows Server Standard             | P9C12A       | Q0C93A       | Q2B69A       |                                    |                                 |
| EC200a Non-commercial Windows Server Datacenter Appliance | P9C14A       | Q0C95A       | Q2B71A       |                                    |                                 |
| EC200a Gateway Firewall                                   | P9C09A       | Q0D02A       | Q2B78A       |                                    |                                 |
| <b>ML110 Software Products</b>                            |              |              |              |                                    |                                 |
| ML110 8-core Subscription                                 | P9B92A       | P9B93A       | Q2B57A       | Q1P90A                             | Q1P91A                          |
| ML110 Add 2-core Subscription                             | P9B96A       | P9B97A       | Q2B59A       | Q1P94A                             | Q1P95A                          |
| ML110 Windows Server Standard 2-core                      | P9B94A       | P9B95A       | Q2B58A       |                                    |                                 |
| ML110 Windows Server Datacenter 2-core                    | P9B98A       | P9B99A       | Q2B60A       |                                    |                                 |
| ML110 Non-commercial 8-core Subscription                  | P9C01A       | P9C02A       | Q2B61A       | Q1P92A                             | Q1P93A                          |
| ML110 Non-commercial Add 2-core Subscription              | Q1K91A       | Q1K92A       | Q2B64A       | Q1P96A                             | Q1P97A                          |
| ML110 Non-commercial Windows Server Standard 2-core       | Q1K93A       | Q1K94A       | Q2B65A       |                                    |                                 |

**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|   |        |        |        |
|---|--------|--------|--------|
| ML110 Non-commercial Windows Server Datacenter 2-core | Q1P98A | Q1P99A | Q2B79A |
| ML110 Gateway Firewall 2-core                         | P9C03A | P9C04A | Q2B62A |

**Easy Connect Software Options**

**24x7 Software Support Upgrade**

|        |  |  |
|--------|--|--|
| Q0P84A | HPE EC 24x7 SW Support Upgrade 1yr Sub | HPE ProLiant Easy Connect 24x7 Software Support Upgrade 1yr Subscription |
| Q0P85A | HPE EC 24x7 SW Support Upgrade 3yr Sub | HPE ProLiant Easy Connect 24x7 Software Support Upgrade 3yr Subscription |
| Q2B63A | HPE EC 24x7 SW Support Upgrade 5yr Sub | HPE ProLiant Easy Connect 24x7 Software Support Upgrade 5yr Subscription |

**Backup Disaster Recovery**

|        |                             |   |
|--------|-----------------------------|---|
| P9C00A | HPE EC Backup DR/TB 1yr Sub | HPE ProLiant Easy Connect Backup and Disaster Recovery per TB Current Config 1yr Subscription |
| Q0C90A | HPE EC Backup DR/TB 3yr Sub | HPE ProLiant Easy Connect Backup and Disaster Recovery per TB Current Config 3yr Subscription |
| Q2B66A | HPE EC Backup DR/TB 5yr Sub | HPE ProLiant Easy Connect Backup and Disaster Recovery per TB Current Config 5yr Subscription |

**Remote Desktop Services**

|        |                            |   |
|--------|----------------------------|---|
| P9C11A | HPE EC RDS/User 1yr RTU    | HPE ProLiant Easy Connect Remote Desktop Services per User 1yr RTU                |
| Q0C92A | HPE EC RDS/User 3yr RTU    | HPE ProLiant Easy Connect Remote Desktop Services per User 3yr RTU                |
| Q2B68A | HPE EC RDS/User 5yr RTU    | HPE ProLiant Easy Connect Remote Desktop Services per User 5yr RTU                |
| P9C10A | HPE EC NC RDS/User 1yr RTU | HPE ProLiant Easy Connect Non-commercial Remote Desktop Services per User 1yr RTU |
| Q0C91A | HPE EC NC RDS/User 3yr RTU | HPE ProLiant Easy Connect Non-commercial Remote Desktop Services per User 3yr RTU |
| Q2B67A | HPE EC NC RDS/User 5yr RTU | HPE ProLiant Easy Connect Non-commercial Remote Desktop Services per User 5yr RTU |

**Web Filter (UK only)**

|        |                                    |  |
|--------|------------------------------------|--|
| P9C16A | HPE EC Web Filter/500 Stud 1yr Sub | HPE ProLiant Easy Connect Web Filter per 500 Students 1yr Subscription |
| Q0C97A | HPE EC Web Filter/500 Stud 3yr Sub | HPE ProLiant Easy Connect Web Filter per 500 Students 3yr Subscription |
| Q2B73A | HPE EC Web Filter/500 Stud 5yr Sub | HPE ProLiant Easy Connect Web Filter per 500 Students 5yr Subscription |

**Gateway Firewall**

|        |                            |   |
|--------|----------------------------|---|
| P9C09A | HPE EC200a Gateway 1yr Sub | HPE ProLiant Easy Connect EC200a Gateway 1yr Subscription |
| Q0D02A | HPE EC200a Gateway 3yr Sub | HPE ProLiant Easy Connect EC200a Gateway 3yr Subscription |
| Q2B78A | HPE EC200a Gateway 5yr Sub | HPE ProLiant Easy Connect EC200a Gateway 5yr Subscription |

**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|        |                                     |   |
|--------|-------------------------------------|---|
| P9C03A | HPE EC ML110 Gateway 2-core 1yr Sub | HPE ProLiant Easy Connect ML110 Gateway 2-core 1yr Subscription |
| P9C04A | HPE EC ML110 Gateway 2-core 3yr Sub | HPE ProLiant Easy Connect ML110 Gateway 2-core 3yr Subscription |
| Q2B62A | HPE EC ML110 Gateway 2-core 5yr Sub | HPE ProLiant Easy Connect ML110 Gateway 2-core 5yr Subscription |

**HPE-Microsoft Azure Token**

|          |                                       |  |
|----------|---------------------------------------|--|
| P9T85AAE | Microsoft Azure Tokens from HPE E-RTU | \$500 Microsoft Azure credit per customer; maximum 5 tokens per customer |
|----------|---------------------------------------|--|

**Windows Server Standard and Datacenter (Commercial)**

|        |                                     |  |
|--------|-------------------------------------|--|
| P9C15A | HPE EC200a Win DC/App 1yr RTU       | HPE ProLiant Easy Connect EC200a Windows Server Datacenter per Appliance 1yr RTU |
| Q0C96A | HPE EC200a Win DC/App 3yr RTU       | HPE ProLiant Easy Connect EC200a Windows Server Datacenter per Appliance 3yr RTU |
| Q2B72A | HPE EC200a Win DC/App 5yr RTU       | HPE ProLiant Easy Connect EC200a Windows Server Datacenter per Appliance 5yr RTU |
| P9C13A | HPE EC200a Win Svr/App 1yr RTU      | HPE ProLiant Easy Connect EC200a Windows Server Standard per Appliance 1yr RTU   |
| Q0C94A | HPE EC200a Win Svr/App 3yr RTU      | HPE ProLiant Easy Connect EC200a Windows Server Standard per Appliance 3yr RTU   |
| Q2B70A | HPE EC200a Win Svr/App 5yr RTU      | HPE ProLiant Easy Connect EC200a Windows Server Standard per Appliance 5yr RTU   |
| P9B98A | HPE EC ML110 Win DC/2-core 1yr RTU  | HPE ProLiant Easy Connect ML110 Windows Server Datacenter per 2-core 1yr RTU     |
| P9B99A | HPE EC ML110 Win DC/2-core 3yr RTU  | HPE ProLiant Easy Connect ML110 Windows Server Datacenter per 2-core 3yr RTU     |
| Q2B60A | HPE EC ML110 Win DC/2-core 5yr RTU  | HPE ProLiant Easy Connect ML110 Windows Server Datacenter per 2-core 5yr RTU     |
| P9B94A | HPE EC ML110 Win Svr/2-core 1yr RTU | HPE ProLiant Easy Connect ML110 Windows Server Standard per 2-core 1yr RTU       |
| P9B95A | HPE EC ML110 Win Svr/2-core 3yr RTU | HPE ProLiant Easy Connect ML110 Windows Server Standard per 2-core 3yr RTU       |
| Q2B58A | HPE EC ML110 Win Svr/2-core 5yr RTU | HPE ProLiant Easy Connect ML110 Windows Server Standard per 2-core 5yr RTU       |

**Windows Server Standard and Datacenter (Non-commercial)**

|        |                                       |   |
|--------|---------------------------------------|---|
| P9C14A | HPE EC200a NC Win DC/App 1yr RTU      | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Datacenter per Appliance 1yr RTU |
| Q0C95A | HPE EC200a NC Win DC/App 3yr RTU      | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Datacenter per Appliance 3yr RTU |
| Q2B71A | HPE EC200a NC Win DC/App 5yr RTU      | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Datacenter per Appliance 5yr RTU |
| P9C12A | HPE EC200a NC Win Svr/App 1yr RTU     | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Standard per Appliance 1yr RTU   |
| Q0C93A | HPE EC200a NC Win Svr/App 3yr RTU     | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Standard per Appliance 3yr RTU   |
| Q2B69A | HPE EC200a NC Win Svr/App 5yr RTU     | HPE ProLiant Easy Connect EC200a Non-commercial Windows Server Standard per Appliance 5yr RTU   |
| Q1P98A | HPE EC ML110 NC Win DC/2-core 1yr RTU | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Datacenter per 2-core 1yr RTU     |

**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|        |  |   |
|--------|--|---|
| Q1P99A | HPE EC ML110 NC Win DC/2-core 3yr RTU  | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Datacenter per 2-core 3yr RTU |
| Q2B79A | HPE EC ML110 NC Win DC/2-core 5yr RTU  | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Datacenter per 2-core 5yr RTU |
| Q1K93A | HPE EC ML110 NC Win Svr/2-core 1yr RTU | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Standard per 2-core 1yr RTU   |
| Q1K94A | HPE EC ML110 NC Win Svr/2-core 3yr RTU | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Standard per 2-core 3yr RTU   |
| Q2B65A | HPE EC ML110 NC Win Svr/2-core 5yr RTU | HPE ProLiant Easy Connect ML110 Non-commercial Windows Server Standard per 2-core 5yr RTU   |

**Easy Connect Solution Subscriptions**

**Easy Connect EC200a Solution Subscriptions (Commercial)**

|        |                                      |   |
|--------|--------------------------------------|---|
| Q0P89A | HPE EC200a Base 1yr Sub              | HPE ProLiant Easy Connect EC200a Base 1yr Subscription                |
| Q0C98A | HPE EC200a Base 3yr Sub              | HPE ProLiant Easy Connect EC200a Base 3yr Subscription                |
| Q2B74A | HPE EC200a Base 5yr Sub              | HPE ProLiant Easy Connect EC200a Base 5yr Subscription                |
| Q0P88A | HPE EC200a Base 1yr Renew 1yr Sub    | HPE ProLiant Easy Connect EC200a Base 1yr Renewal 1yr Subscription    |
| P9C05A | HPE EC200a Base 1yr Renew 3yr Sub    | HPE ProLiant Easy Connect EC200a Base 1yr Renewal 3yr Subscription    |
| Q0Q88A | HPE EC200a Premium 1yr Sub           | HPE ProLiant Easy Connect EC200a Premium 1yr Subscription             |
| Q0D00A | HPE EC200a Premium 3yr Sub           | HPE ProLiant Easy Connect EC200a Premium 3yr Subscription             |
| Q2B76A | HPE EC200a Premium 5yr Sub           | HPE ProLiant Easy Connect EC200a Premium 5yr Subscription             |
| Q0Q87A | HPE EC200a Premium 1yr Renew 1yr Sub | HPE ProLiant Easy Connect EC200a Premium 1yr Renewal 1yr Subscription |
| P9C07A | HPE EC200a Premium 1yr Renew 3yr Sub | HPE ProLiant Easy Connect EC200a Premium 1yr Renewal 3yr Subscription |

**Easy Connect EC200a Solution Subscriptions (Non-commercial)**

|        |                                      |   |
|--------|--------------------------------------|---|
| Q0P87A | HPE EC200a Base NC 1yr Sub           | HPE ProLiant Easy Connect EC200a Base Non-commercial 1yr Subscription             |
| Q0C99A | HPE EC200a Base NC 3yr Sub           | HPE ProLiant Easy Connect EC200a Base Non-commercial 3yr Subscription             |
| Q2B75A | HPE EC200a Base NC 5yr Sub           | HPE ProLiant Easy Connect EC200a Base Non-commercial 5yr Subscription             |
| Q0P86A | HPE EC200a Base NC 1yr Renew 1yr Sub | HPE ProLiant Easy Connect EC200a Base Non-commercial 1yr Renewal 1yr Subscription |
| P9C06A | HPE EC200a Base NC 1yr Renew 3yr Sub | HPE ProLiant Easy Connect EC200a Base Non-commercial 1yr Renewal 3yr Subscription |
| Q0P91A | HPE EC200a Premium NC 1yr Sub        | HPE ProLiant Easy Connect EC200a Premium Non-commercial 1yr Subscription          |
| Q0D01A | HPE EC200a Premium NC 3yr Sub        | HPE ProLiant Easy Connect EC200a Premium Non-commercial 3yr Subscription          |

**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|        |   |  |
|--------|---|--|
| Q2B77A | HPE EC200a Premium NC 5yr Sub           | HPE ProLiant Easy Connect EC200a Premium Non-commercial 5yr Subscription             |
| Q0P90A | HPE EC200a Premium NC 1yr Renew 1yr Sub | HPE ProLiant Easy Connect EC200a Premium Non-commercial 1yr Renewal 1yr Subscription |
| P9C08A | HPE EC200a Premium NC 1yr Renew 3yr Sub | HPE ProLiant Easy Connect EC200a Premium Non-commercial 1yr Renewal 3yr Subscription |

**Easy Connect ML110 Solution Subscriptions (Commercial)**

|        |  |  |
|--------|--|--|
| Q1P91A | HPE EC ML110 8-core 1yr Sub            | HPE ProLiant Easy Connect ML110 8-core 1yr Subscription                        |
| P9B93A | HPE EC ML110 8-core 3yr Sub            | HPE ProLiant Easy Connect ML110 8-core 3yr Subscription                        |
| Q2B57A | HPE EC ML110 8-core 5yr Sub            | HPE ProLiant Easy Connect ML110 8-core 5yr Subscription                        |
| Q1P90A | HPE EC ML110 8-core 1yr Renew 1yr Sub  | HPE ProLiant Easy Connect ML110 8-core 1yr Renewal 1yr Subscription            |
| P9B92A | HPE EC ML110 8-core 1yr Renew 3yr Sub  | HPE ProLiant Easy Connect ML110 8-core 1yr Renewal 3yr Subscription            |
| Q1P95A | HPE EC ML110 +2-core 1yr Sub           | HPE ProLiant Easy Connect ML110 Additional 2-core 1yr Subscription             |
| P9B97A | HPE EC ML110 +2-core 3yr Sub           | HPE ProLiant Easy Connect ML110 Additional 2-core 3yr Subscription             |
| Q2B59A | HPE EC ML110 +2-core 5yr Sub           | HPE ProLiant Easy Connect ML110 Additional 2-core 5yr Subscription             |
| Q1P94A | HPE EC ML110 +2-core 1yr Renew 1yr Sub | HPE ProLiant Easy Connect ML110 Additional 2-core 1yr Renewal 1yr Subscription |
| P9B96A | HPE EC ML110 +2-core 1yr Renew 3yr Sub | HPE ProLiant Easy Connect ML110 Additional 2-core 1yr Renewal 3yr Subscription |

**Easy Connect ML110 Solution Subscriptions (Non-commercial)**

|        |  |  |
|--------|--|--|
| Q1P93A | HPE EC ML110 NC 8-core 1yr Sub           | HPE ProLiant Easy Connect ML110 Non-commercial 8-core 1yr Subscription             |
| P9C02A | HPE EC ML110 NC 8-core 3yr Sub           | HPE ProLiant Easy Connect ML110 Non-commercial 8-core 3yr Subscription             |
| Q2B61A | HPE EC ML110 NC 8-core 5yr Sub           | HPE ProLiant Easy Connect ML110 Non-commercial 8-core 5yr Subscription             |
| Q1P92A | HPE EC ML110 NC 8-core 1yr Renew 1yr Sub | HPE ProLiant Easy Connect ML110 Non-commercial 8-core 1yr Renewal 1yr Subscription |
| P9C01A | HPE EC ML110 NC 8-core 1yr Renew 3yr Sub | HPE ProLiant Easy Connect ML110 Non-commercial 8-core 1yr Renewal 3yr Subscription |
| Q1P97A | HPE EC ML110 NC +2-core 1yr Sub          | HPE ProLiant Easy Connect ML110 Non-commercial Additional 2-core 1yr Subscription  |
| Q1K92A | HPE EC ML110 NC +2-core 3yr Sub          | HPE ProLiant Easy Connect ML110 Non-commercial Additional 2-core 3yr Subscription  |
| Q2B64A | HPE EC ML110 NC +2-core 5yr Sub          | HPE ProLiant Easy Connect ML110 Non-commercial Additional 2-core 5yr Subscription  |

**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|        |  |   |
|--------|--|---|
| Q1P96A | HPE EC ML110 NC +2-core 1yr Renew 1y Sub | HPE ProLiant Easy Connect ML110 Non-commercial Additional 2-core 1yr Renewal 1yr Subscription |
| Q1K91A | HPE EC ML110 NC +2-core 1yr Renew 3y Sub | HPE ProLiant Easy Connect ML110 Non-commercial Additional 2-core 1yr Renewal 3yr Subscription |

**Easy Connect Ordering Guidelines**

HPE highly recommends that HPE provided configurators are used to create a valid configuration.

Select:

1. Select the Server (EC200a – Base/Premium or ML110 – Base, Standard, Premium)
2. Customer Type (Commercial/Non-Commercial)
3. Length of Subscription Term (1 Year/ 3 Year/5 Year)
4. High Availability
5. Only for EC200a, Hardware Accessories and Storage Expansion kits if needed

**NOTE:** Commercial Customers are for profit Organisations.

**NOTE:** Non Commercial Customers are not for profit Organisations.

**NOTE:** High Availability will double the quantity on the products when the configuration is converted into a quote. The products that will get doubled are listed in the High Availability section.

**EC200a:**

Mandatory Product

| Type         | Measure/term | Min. Qty | Max. Qty. | Notes                 |
|--------------|--------------|----------|-----------|-----------------------|
| Server       |              | 1        | 1         | Base or Premium Model |
| Subscription | Per Server   | 1        | 1         | Per Server            |

Optional Products

**NOTE:** As these are optional products, the Easy Connect Solution can operate without them. The min quantity is shown in case it is selected.

| Type                  | Measure/term | Min. Qty  | Max. Qty.   | Notes  |
|-----------------------|--------------|---|---|--|
| RDS                   | Per User     | 1   | Unlimited   | If RDS per User License is greater than 0, then either Window Server Qty =2 or Windows DC Qty 1 must be selected |
| Window Server License | # of VMs     | 1   | 5   | The reason to limit the Quantity to 5 is due to the fact that it is more cost effective to buy Windows DC        |
| Windows DC            | # of VMs     | 1   | 1   |  |
| Managed Gateway       |              | 1   | 1   | Cannot be ordered along with Web Filter  |
| Web Filter            |              | 1   | 1   | Only offered in UK   |
| BU/DR per TB          | Per TB       | 1 (Base)<br>2 (Base + Base Expansion Kit)<br>2 (Premium)<br>4 (Premium + Premium Expansion Kit) | 1 (Base)<br>2 (Base + Base Expansion Kit)<br>2 (Premium)<br>4 (Premium + Premium Expansion Kit) | Based on the Hardware configuration, the quantities vary   |

QuickSpecs

HPE ProLiant Easy Connect Managed Hybrid Servers

Solution Features and Subscription Options

|                             |                  |   |   |   |
|-----------------------------|------------------|---|---|---|
| 24x7 Premium SW Support     | Per Subscription | 1 | 1 | If this product is selected then it is mandatory to order 24x7 Foundation Care for Hardware |
| \$500 Microsoft Azure Token | Per Server       | 1 | 1 |   |

**ML110:**

Easy Connect ML110 based offering has 3 flavors – Base (8 Core), Standard (10 Core), Premium (14 Core).

Mandatory Products

| Type         | Measure/term | Min. Qty  | Max. Qty.   | Notes                           |
|--------------|--------------|---|---|---------------------------------|
| Server       |              | 1   | 1   | Base, Standard or Premium Model |
| Subscription | Per Server   | 1 - 8 Core (Base)<br>1 - 8 Core + 1 - 2 Core (Standard)<br>1 - 8 Core + 3 -2 Core (Premium) | 1 - 8 Core (Base)<br>1 - 8 Core + 1 - 2 Core (Standard) |                                 |

Optional Products

**NOTE:** As these are optional products, the Easy Connect Solution can operate without them. The min quantity is shown in case it is selected.

| Type                           | Measure/term | Min. Qty   | Max. Qty.  | Notes  |
|--------------------------------|--------------|--|--|--|
| RDS                            | Per User     | 1  | Unlimited  |  |
| Window Server License (2-Core) | # of VMs     | 4 x # of VMs (Base)<br>5 x # of VMs (Standard)<br>7 x # of VMs (Premium) | 4 x 4 VMs (Base)<br>5 x 4 VMs (Standard)<br>7 x 4 of VMs (Premium) | The reason to limit the Quantity to 4 VMs times # of 2-Cores is due to the fact that it is more cost effective to buy Windows DC<br><b>NOTE:</b> If the server has 8 Core Processor, then for 1 Window Server License, qty 4 of this product will need to be selected.<br>If RDS is selected, since 2 Window Server Licenses are needed, qty 8 of this product would be selected.<br>Similarly for additional Windows Server license, Multiples of 4 will need to be ordered;<br>So if the ML110 was 10 Core, then it would be multiples of 5. |
| Windows DC (2-Core)            | # of VMs     | 4 (Base)<br>5 (Standard)<br>7 (Premium)                                  | 4 (Base)<br>5 (Standard)<br>7 (Premium)                            | It is more cost effective to order Windows DC if you need more than 4 VMs  |
| Managed Gateway (2-Core)       |              | 4 (Base)<br>5 (Standard)<br>7 (Premium)                                  | 4 (Base)<br>5 (Standard)<br>7 (Premium)                            | Cannot be ordered along with Web Filter  |
| Web Filter                     |              | 1  | 1  | Only offered in UK<br>Cannot be ordered with Managed Gateway   |
| BU/DR per TB                   | Per TB       | 2 (Base)<br>3 (Standard)   | 2 (Base)<br>3 (Standard)   | Based on the Hardware configuration, the quantities vary   |



**QuickSpecs**

**HPE ProLiant Easy Connect Managed Hybrid Servers**

**Solution Features and Subscription Options**

|                             |                  | 6 (Premium) | 6 (Premium) |   |
|-----------------------------|------------------|-------------|-------------|---|
| 24x7 Premium SW Support     | Per Subscription | 1           | 1           | If this product is selected then it is mandatory to order 24x7 Foundation Care for Hardware |
| \$500 Microsoft Azure Token | Per Server       | 1           | 1           |   |

**High Availability**

**NOTE:** When this option is selected within HPE Configuration Tools, the quantities of certain products will double within the quote or the basket.

Below table shows which get doubled when High Availability is selected.

**EC200a**

|                             |    |
|-----------------------------|----|
| Subscription SKUs           | x2 |
| RDS per User license        | x1 |
| Windows Server              | x2 |
| Windows DC                  | x2 |
| Managed Gateway             | x1 |
| Web Filter                  | x1 |
| BU/DR per TB                | x1 |
| 24x7 Premium SW Support     | x1 |
| \$500 Microsoft Azure Token | x1 |
| HW SKUs                     | x2 |
| TS Support SKUs             | x2 |

**ML110**

|                             |    |
|-----------------------------|----|
| Subscription SKUs (2-Core)  | x2 |
| RDS per User license        | x1 |
| Windows Server (2-Core)     | x2 |
| Windows DC (2-Core)         | x2 |
| Managed Gateway (2-Core)    | x1 |
| Web Filter                  | x1 |
| BU/DR per TB                | x1 |
| 24x7 Premium SW Support     | x1 |
| \$500 Microsoft Azure Token | x1 |
| HW SKUs                     | x2 |
| TS Support SKUs             | x2 |

**Renewal**

**NOTE:** HPE will send out Renewal Notice 90 days prior to the Subscription End Date.

**NOTE:** HPE will highlight the SKUs that need to be ordered for Renewal.

**NOTE:** The rules of ordering are the same as listed above but the Subscription Renewal Skus are different.

## Summary of Changes

| Date        | Version History     | Action  | Description of Change:   |
|-------------|---------------------|---------|--|
| 02-Oct-2017 | From Version 8 to 9 | Changed | Pre-configured Models section was revised.   |
| 07-Aug-2017 | From Version 7 to 8 | Changed | Pre-configured Models section was revised.   |
| 27-Mar-2017 | From Version 6 to 7 | Added   | Added new features, ordering guide, and all SKUs. Added internal EC200a system diagram and Choosing the Right EC200a Server.   |
|             |                     | Changed | Rearranged Available Capacity. Changed Aruba Integration details and changed names for IAAS VMs to Custom VMs and Single Sign-On to Same Sign-On (technical accuracy).<br><br>Changed order of content and details of workloads. |
| 28-Nov-2016 | From Version 5 to 6 | Added   | The HPE ProLiant Easy EC200a server and the HPE ProLiant Easy Connect ML110 Server were combined in a single QuickSpecs.   |
|             |                     | Changed | The title was changed to HPE ProLiant Easy Connect Managed Hybrid Servers. Changes were made throughout the QuickSpecs.  |
| 26-Sep-2016 | From Version 4 to 5 | Added   | Added Microsoft Azure Tokens from HPE E-LTU.   |
|             |                     | Changed | Solution and Solution Key Features were revised.   |
| 30-Aug-2016 | From Version 3 to 4 | Changed | Version reverted.  |
| 15-Aug-2016 | From Version 2 to 3 | Changed | Overview, Solution, Solution Key Features, Standard Features, Pre-Configured Models, and Core Options were revised.<br><br>The title was changed to HPE ProLiant Easy Connect EC200a Managed Hybrid Server.                      |
| 06-May-2016 | From Version 1 to 2 | Changed | Front View image was fixed.  |



[hpe.com/qref/ec200a](http://hpe.com/qref/ec200a)



Sign up for updates

© Copyright 2017 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Microsoft and Windows NT are US registered trademarks of Microsoft Corporation.  
 Unix is a registered trademark of The Open Group.  
 Intel, the Intel logo, Xeon and Xeon Inside are trademarks of Intel Corporation in the U.S. and other countries.

For hard drives, 1GB = 1 billion bytes. Actual formatted capacity is less.

c04959071 - 15557 - Worldwide - V9 - 2-October-2017