

### Overview

#### HPE ProLiant Cloud Managed Servers with Zynstra Software

HPE ProLiant Cloud Managed Servers with Zynstra software deliver worry-free, enterprise-grade hybrid IT as a service, enabling customers to choose the right blend of local and cloud IT to scale with their organization, with less up-front cost and predictable monthly pricing. The Cloud Managed Server offers a fully managed central platform that runs the entire IT real estate no matter where the applications and data reside, on-premises or in the cloud. the Hewlett Packard Enterprise customers choose where the data is located, who accesses what, where and how and the rest is managed by Hewlett Packard Enterprise

#### How it Works

The HPE Cloud Managed Server has integrated hardware, virtualization, software and cloud services to create a solution that just works and meets the needs of SMBs, branch offices, education, retail and many more industries.

The offering empowers IT users to experience secure, reliable access to their Windows, Linux and SaaS applications thanks to the HPE unique Cloud Management Platform **and Keep Current** service.

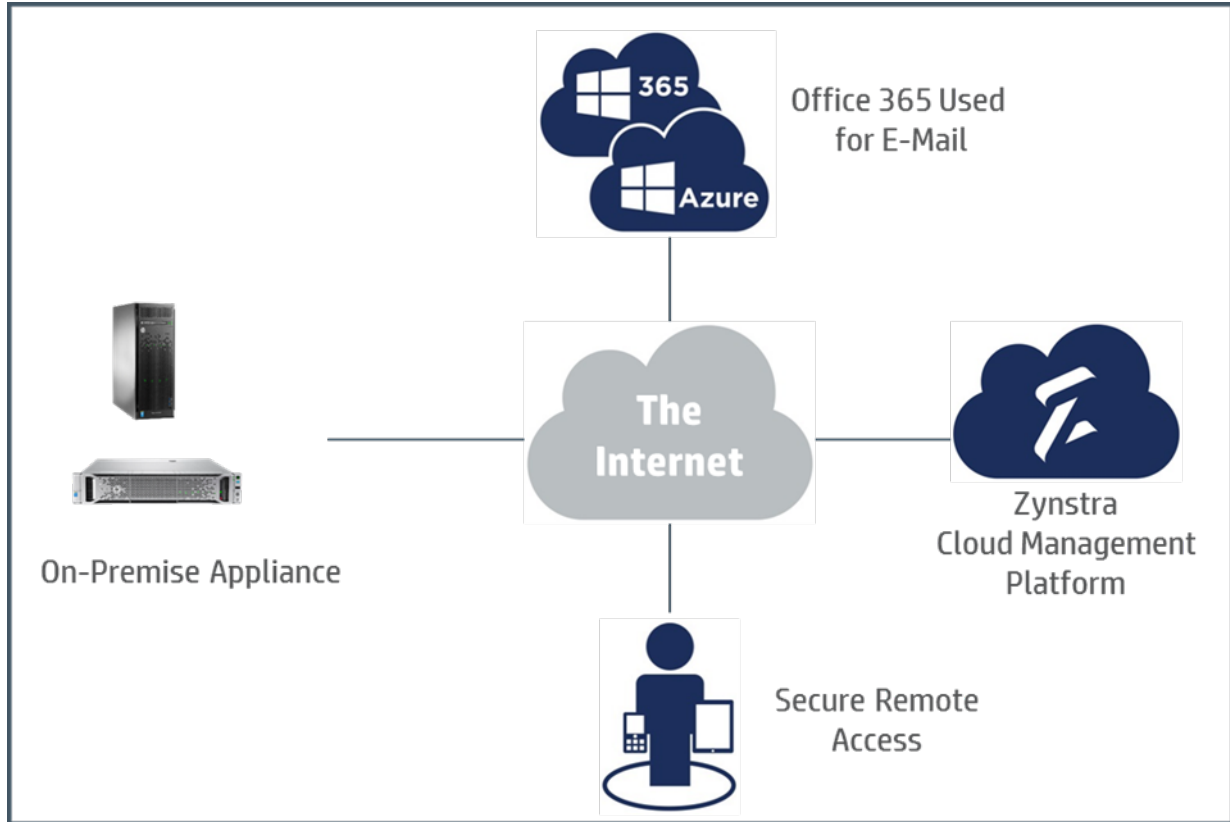
But it is the Hewlett Packard Enterprise solution that makes it all possible – carefully selected Servers appliance with cloud management and virtualization technology from Zynstra, combined with rigorously tested network, security and cloud integration.

The solution is fast to deploy, easy to provision, centrally managed, always up to date and always consistent. All this is made possible because our services are backed by a dedicated engineering team, and a DevOps environment that enables rapid feature development.

Being delivered as a service allows for a predictable subscription price, the Hewlett Packard Enterprise solution is cost-effective for even the smallest business, branch or school.

## Overview

### Solution Overview



### Who is it for?

#### Small and Medium Sized Businesses

Designed for organizations with 5 to 250 IT workers per office, the solution supports a complete range of Hybrid IT scenarios, delivering core IT functions out of the box, and securing any data and applications behind your firewall.

#### Education

Designed for schools, the HPE Cloud Managed Server supports a complete range of IT for small and large schools of up to 1200 students per campus. Resources for hosting local management and learning environments combined with integration to common cloud applications, backup and disaster recovery are all provided. And, of course, all are 'cloud-managed' by trusted local IT partners.

#### Enterprise Branch

For multi-site, remote offices and branch IT, the Cloud Managed Server is delivered as a fully managed on-site server, preconfigured and ready to go in a matter of minutes. Local VLANs, file storage, printer sharing and private cloud VMs offer enterprise class IT for even the smallest branch office or retail site, all managed remotely.

## Overview

### Benefits at a Glance

The Hewlett Packard Enterprise appliances comprises of a unique combination of hardware validation, software and services that offer a range of benefits not offered from off-the-shelf servers or proprietary enterprise solutions.

**Excellent service level commitments.** Remotely monitored by experts dedicated to helping you, including next business day hardware fix if required.

**Enhanced security.** User access privileges, data protection, next generation firewall and web filtering.

**Reliable.** A backed-up, resilient appliance with next business day repair services and the option of high-availability and cloud back-up services.

**Quick to deploy.** Fast set-up of new branches with pre-staged, self-configuring appliances.

**Maintenance free IT.** No manual patching or backup management required. A self-healing solution with break fix service included, reducing your server administration effort by 90%.

**Keep current IT.** Patched, updated and upgraded. No more unplanned big IT refresh projects.

**Low cost of ownership.** Realize up to 60% lower total cost of ownership compared to traditional on-premises server, software and network solutions.

**Pay per month.** Comprehensive support and monthly payments mean predictable IT costs.

## Standard Features

### Key Features

**Cloud Managed Server.** Based on HPE ProLiant Servers with Zynstra software and Intel E3 and E5 processors. Everything a branch requires for network, file sharing and security. Consistent, reliable, always up-to-date hardware and software.

**Enterprise MPLS Network Support.** Ready to be deployed on your enterprise MPLS network. With the option to employ virtual-router NFV technology.

**Secure Multi-Site Over Public Internet.** Sophisticated next-generation firewall, web filter, and IPsec support to securely connect multiple branches via the Internet and HQ or datacentre.

**Cloud Management Platform.** Remote monitoring, management, and our unique Keep Current service for one site or hundreds of sites.

**Cloud Backup and Disaster Recovery.** Pre-integrated with popular cloud storage services for off-site backup, with a choice of data retention policies, and disaster recovery.

**Secure Seamless Web App Access.** Option of both local and in-cloud Active Directory, for single sign-on to a range of SaaS applications such as Office 365.

### Base Product

<b>Cloud Managed</b>	Worry-free IT- Configured, monitored and managed by Hewlett Packard Enterprise and your IT partner 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
<b>Keep Current Service</b>	Keep Current. IT and curated apps are patched and updated by the Hewlett Packard Enterprise automated processes Keep Secure. Secure, monitored and automatically able to identify both internal and external security threats Keep Integrated. Pre-integrated and updated to make use of optional cloud back-up and SSO to Office 365 cloud apps Keep Running. Self-healing architecture and the Hewlett Packard Enterprise on-going performance monitoring and tuning.
<b>File &amp; Printer Sharing</b>	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
<b>Compute Resources</b>	IaaS Virtual Machines. Compute capacity to host on-premises apps. Allocate CPUs, RAM and storage to virtual machines for local applications.
<b>Network Functions</b>	DNS and DHCP-Critical network services on-premises Firewall. ICSA certified firewall gateway to the Internet protects LAN-side applications, data and users IPsec-On the public Internet, securely connects all branch sites using IPsec and next generation firewall VPN- Secure remote access to services for users and IT administrators

## Models

**User Management** User Control Console- Individual user and group administration

Active Directory- Industry-leading user credential management, installed on-premises

SSO- Option of Single Sign On to MS Office 365 using AD in the Cloud

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## Gateway Product

**Security and Control** Firewall-ICSA certified firewall gateway to the Internet protects LAN-side applications, data and users  
Web Filter- 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 visualisation of network traffic at a fine-grained level  
Virus-Blocker-On-the wire anti-virus scanning automatically scans HTTP, FTP and SMTP traffic

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## Cloud Backup and Disaster Recovery Product

**Business Continuity** Cloud Backup-Nightly backup of the entire system to cloud storage with an option of data-retention periods, inclusive of all Cloud storage costs, for a predictable subscription price  
Disaster Recovery-Temporary access to users data in the cloud in the event of a major outage, followed by data restoration to your hardware

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## Windows Server Products

**Windows Server** Single Instance for VMs. Windows Server 2012 and 2008 are supplied as a subscription price for deployment in to the HPE IaaS Virtual Machine  
**Multiple Instances for VMs. Windows Server 2012 and 2008 Datacentre license available as a subscription price for unlimited IaaS VMs**

**NOTE:** For dual-server High Availability deployment, Windows licenses for IaaS VMs must be purchased for both servers

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## RDS Product

**User Desktops** Microsoft RDS platform provided as a subscription service ready for your users' desktop applications. RDS services are fully monitored and kept-current by HPE. 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

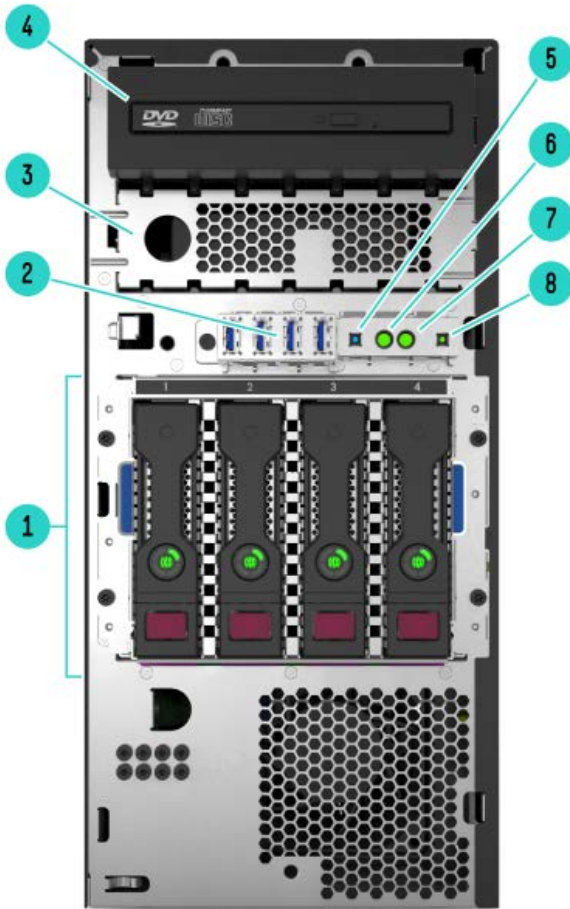
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## Models

### HPE ProLiant ML30 Generation 9 (Gen9)

HPE ProLiant ML30 Gen9, delivers a full featured single-socket tower server with the right features at a competitive price, easy to use and maintain for growing small businesses and remote branch offices.

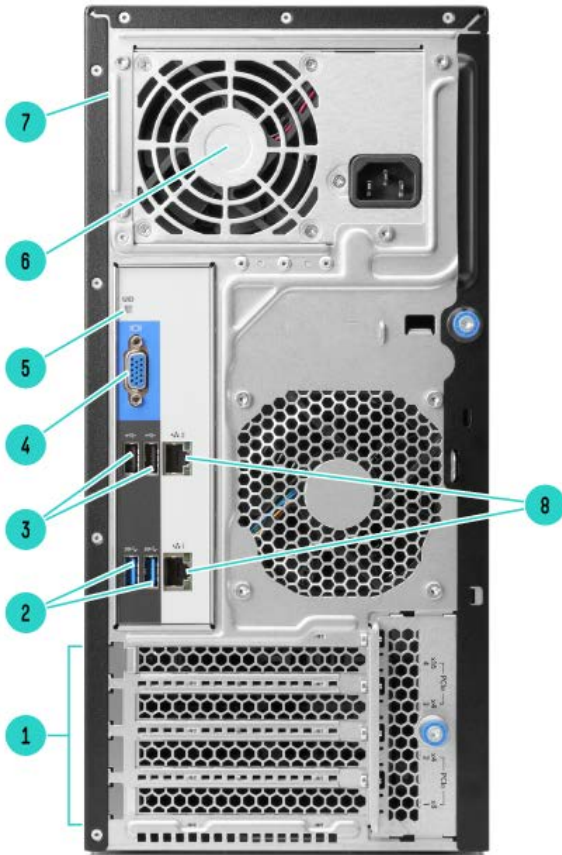
#### 4 LFF Model



#### Front View (details for 4LFF and 8SFF)

1. Four (4) LFF or Eight (8) SAS/SATA HDD cage
2. Four (4) USB 3.0 connectors
3. Media Drive Blank
4. 9.5mm Slim SATA DVD-ROM or DVD RW Optical Drive
5. Power On/Standby button and system power LED button
6. NIC status LED
7. Health LED
8. UID (unit identification) button/LED

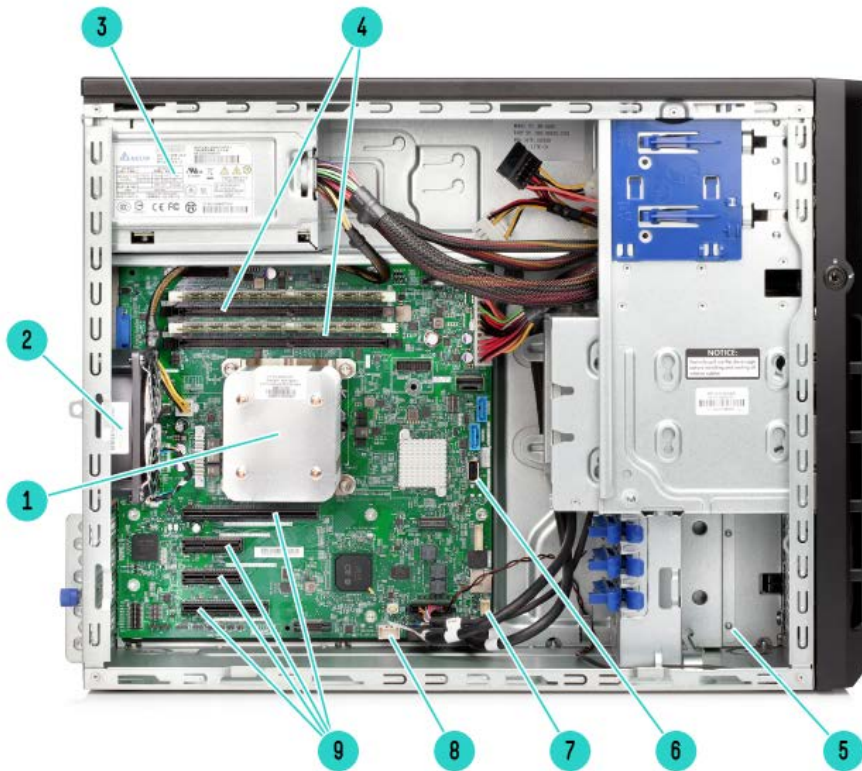
## Models



### Rear View

1. PCI Slots (Slots 1-4)
2. USB 3.0 (2)
3. USB 2.0 (2)
4. Video Connector
5. UID LED
6. Power Supply Power Fan
7. HPE 350W Power Supply
8. Network RJ-45 Ports (2)

## Models



### Internal View

1. One (1) processor and heatsink
2. System Fan
3. Power Supply
4. Four (4) DDR4 DIMM slots
5. System Fans: System fan and Front PCI fan (optional)
6. Two (2) Internal USB 2.0 connectors (USB Type A, Tape Drive Header)
7. Gen9 Smart Storage Battery Holder Kit
8. MicroSD slot
9. Four (4) PCIe expansion slots

**[SKU Number]**

**824379-XX1**

**Model Name**

PSHP ProLiant ML30 INTEL XEON 4-CORE E3-1220-V5/ 2.4GHZ, 4GB(1X4GB) DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT 330I ADAPTER, 1X 350W PS

**Processor**

Intel® Xeon® E3-1220v5

**Number of Processors**

One

**Memory**

4 GB (1x4GB Registered DIMMs, 2133 MHz))

**Network Controller**

Broadcom 5720 Dual-port 1GbE

**Storage Controller**

HP Dynamic Smart Array B140i

**Hard Drive**

None ship standard



## QuickSpecs

## HPE ProLiant Cloud Managed Servers

### Models

<b>Internal Storage</b>	1x4 LFF HDD Bays (Hot Plug)
<b>Optical Drive Bay</b>	Optional: DVD-ROM, DVD-RW
<b>PCI-Express Slots</b>	4 PCIe 3.0 slots
<b>Power Supply</b>	(1) 350W ATX Power Supply
<b>Fans</b>	1 non hot plug, non-redundant
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional)
<b>Form Factor</b>	Tower (4.5U)
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response. response.

### Upgrade Options

<b>Memory</b>	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 Standard Memory Kit (US)	805669-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 (UK)	
<b>Storage</b>	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
<b>Networking</b>	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 Standard Memory Kit (US)	805669-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 (UK)	

### Required Services options

<b>Base Software</b>	HPE CMIT ML30 Base NC SW 3yr LTU	P9B94A
	HPE CMIT ML30 Base SMB SW 3yr LTU	P9B95A
<b>Server</b>	3 Year Next Business Day ML30 Gen9 Foundation Care Service	H1AS0E
<b>iLO</b>	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Server License	BD774A

### HPE Cloud Services

<b>Curated Apps and Cloud Services</b>	HPE Cloud Managed IT Backup and Disaster Recovery per TB Current Configuration 3 Year LTU	P9C00A
	HPE Cloud Managed IT ML30 Next Generation Gateway 3 Year LTU	P9C01A
	HPE Cloud Managed Non-commercial RDS per User License 3 Year LTU	P9C10A

**Models**

HPE Cloud Managed SMB RDS per User License 3 Year LTU	P9C11A
HPE Cloud Managed Non-commercial IT Windows Server per VOSE 3 Year LTU	P9C12A
HPE Cloud Managed SMB IT Windows Server per VOSE 3 Year LTU	P9C13A
HPE Cloud Managed IT Non-commercial Windows Data Center Per Appliance CPU 3 Year LTU	P9C14A
HPE Cloud Managed IT SMB Windows Data Center per Appliance CPU 3 year LTU	P9C15A
HPE Cloud Managed IT Web Filter per 500 Student 3 Year LTU	P9C16A

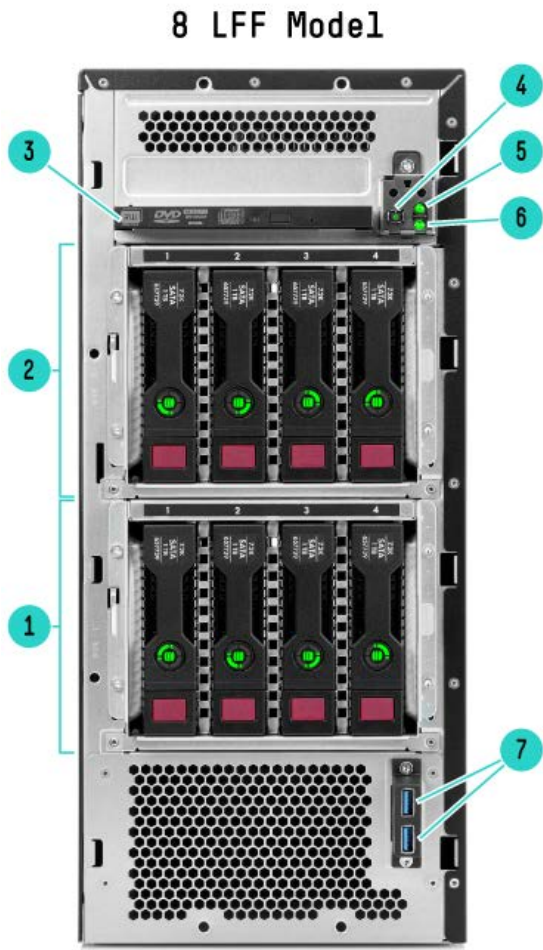
**HPE ProLiant ML30 Cloud Managed Server**

<b>Minimum Required Configuration</b>	INTEL XEON 4-CORE E3-1220-V5/ 2.4GHZ, 32GB DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT 330I ADAPTER, 1X 350W PS	
	HPE ProLiant ML30	824379-001
	32GB (8GBx4)	803028-B21
	ILO Essentials	BD775A
	1TB HDD(x2)	652753-B21
	2x1GB Ports	615732-B21
	Dedicated ilo	780310-B21
	3 Year NBD Service	H1AS0E

## Models

### HPE ProLiant ML110 Generation9 (Gen9)

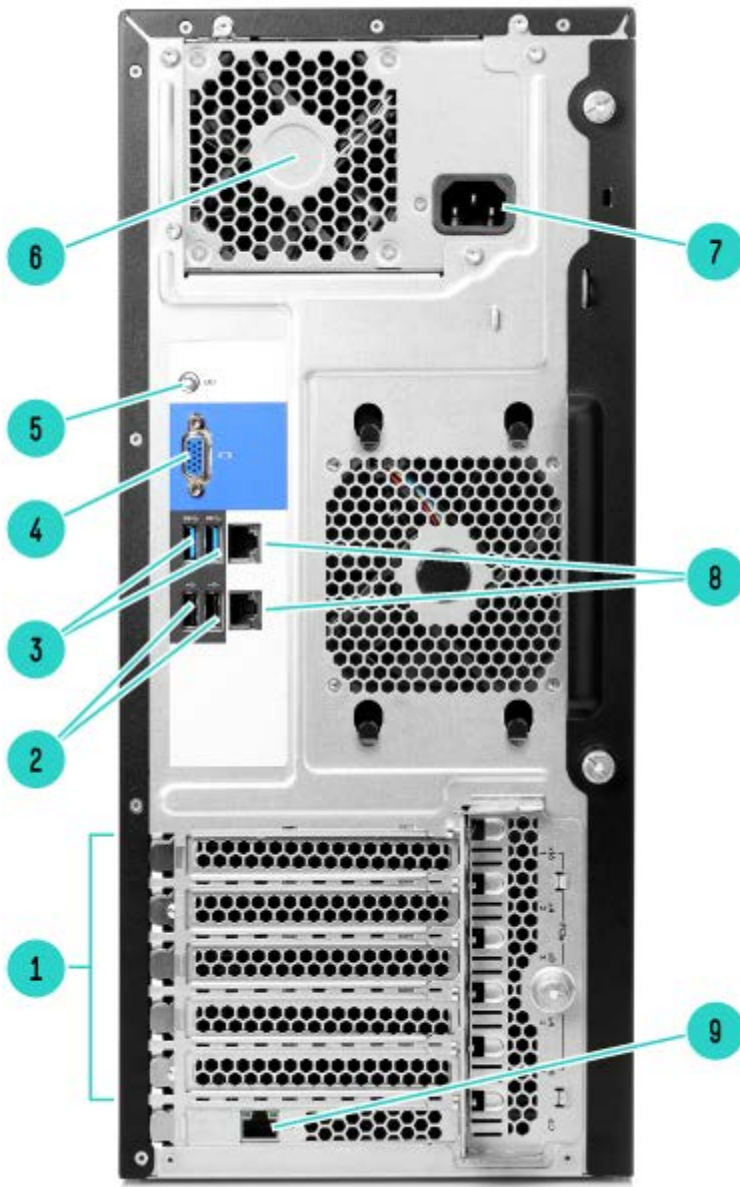
The HPE ProLiant ML110 Gen9 Server is a 1P/ 4.5U affordable single-socket tower server featuring better performance, expansion, and growth than previous 1P single-socket tower models. Designed to meet small and mid-sized businesses' performance compute demands the ML110 Gen9 delivers exceptional value at an affordable price.



#### Front View (details for 8LFF and 16SFF)

- |                             |                           |
|-----------------------------|---------------------------|
| 1. Drive cage               | 5. Health LED             |
| 2. Drive cage               | 6. NIC status LED         |
| 3. Optical drive (optional) | 7. USB 3.0 (2) connectors |
| 4. Power button/LED         |                           |

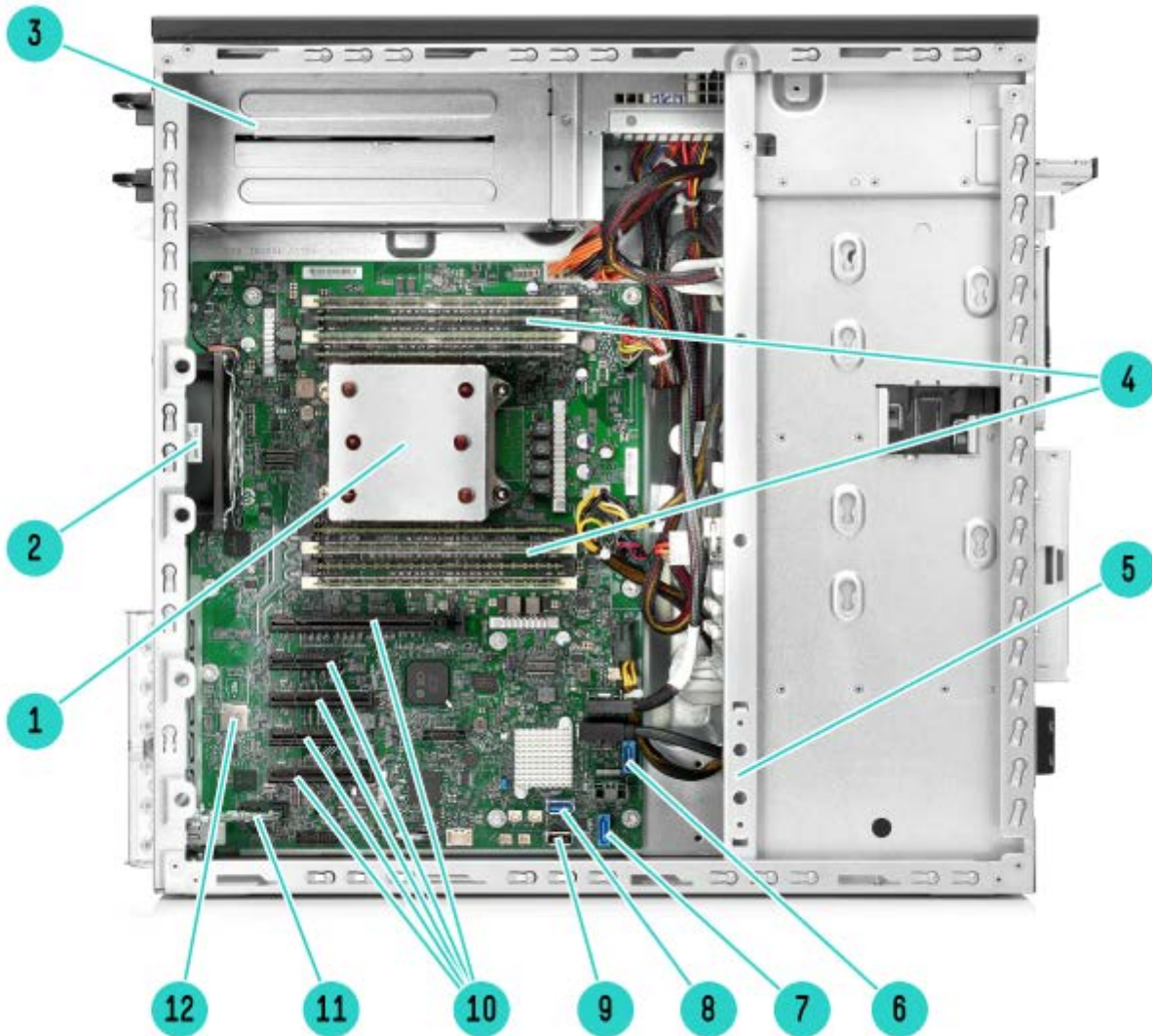
## Models



### Rear View

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

## Models



### 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 E5-1600v3 Processor and SAS SSD
3. Power Supply backplane cage
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

## Models

<b>[SKU Number]</b>	<b>777161-XX1</b>
<b>Model Name</b>	HP ProLiant ML110- INTEL XEON 6-CORE E5-2620V3/ 2.4GHZ, 8GB(1X8GB) DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT 330I ADAPTER, 1X 550W PS
<b>Processor</b>	Intel® Xeon® E5-2620v3
<b>Number of Processors</b>	One
<b>Memory</b>	8 GB (1x8GB Registered DIMMs, 1600 MHz)
<b>Network Controller</b>	Broadcom 5717 Dual-port 1GbE
<b>Storage Controller</b>	HP Dynamic Smart Array B140i
<b>Hard Drive</b>	None ship standard
<b>Internal Storage</b>	1x4 LFF HDD Bays (Hot Plug)
<b>Optical Drive Bay</b>	Optional Slim Optical Bay (SATA DVD-RW/ROM Optical Drive)
<b>PCI-Express Slots</b>	5 PCIe 3.0 slots (without risers)
<b>Power Supply</b>	(1) HP 550W ATX Power Supply
<b>Fans</b>	1 non hot plug, non-redundant
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional)
<b>Form Factor</b>	Tower (4.5U)
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.

## Upgrade Options

<b>Memory</b>	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 Standard Memory Kit (US)	803028-B21
	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 (UK)	726718-B21
<b>Storage</b>	HP ML110 Gen9 4LFF Hot Plug Drive Cage Kit	784584-B21
	HP 1TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	657750-B21
	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
<b>Networking</b>	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
<b>iLO</b>	HP dedicated iLO interface	780310-B21

## Required Services options

<b>Base Software</b>	HPE CMIT ML110 Base NC SW 3yr LTU	P9B92A
	HPE CMIT ML110 Base SMB SW 3yr LTU	P9B93A
<b>Server</b>	3 Year Next Business Day ML110 Gen9 Foundation Care Service	U8JA5E
<b>iLO</b>	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License	BD774A

**Models**

**HPE Cloud Services**

<b>Curated Apps and Cloud Services</b>	HPE Cloud Managed IT Backup and Disaster Recovery per TB Current Configuration 3 Year LTU	P9C00A
	HPE Cloud Managed IT Academy Gateway 1-150 IP Address 3 Year LTU	P9C01A
	HPE Cloud Managed ML110 Next Gen Gateway 3 Year LTU	P9C02A
	HPE Cloud Managed Non-commercial RDS per User License 3 Year LTU	P9C10A
	HPE Cloud Managed SMB RDS per User License 3 Year LTU	P9C11A
	HPE Cloud Managed Non-commercial IT Windows Server per VOSE 3 Year LTU	P9C12A
	HPE Cloud Managed SMB IT Windows Server per VOSE 3 Year LTU	P9C13A
	HPE Cloud Managed IT Non-commercial Windows Data Center Per Appliance CPU 3 Year LTU	P9C14A
	HPE Cloud Managed IT SMB Windows Data Center per Appliance CPU 3 year LTU	P9C15A
	HPE Cloud Managed IT Web Filter per 500 Student 3 Year LTU	P9C16A

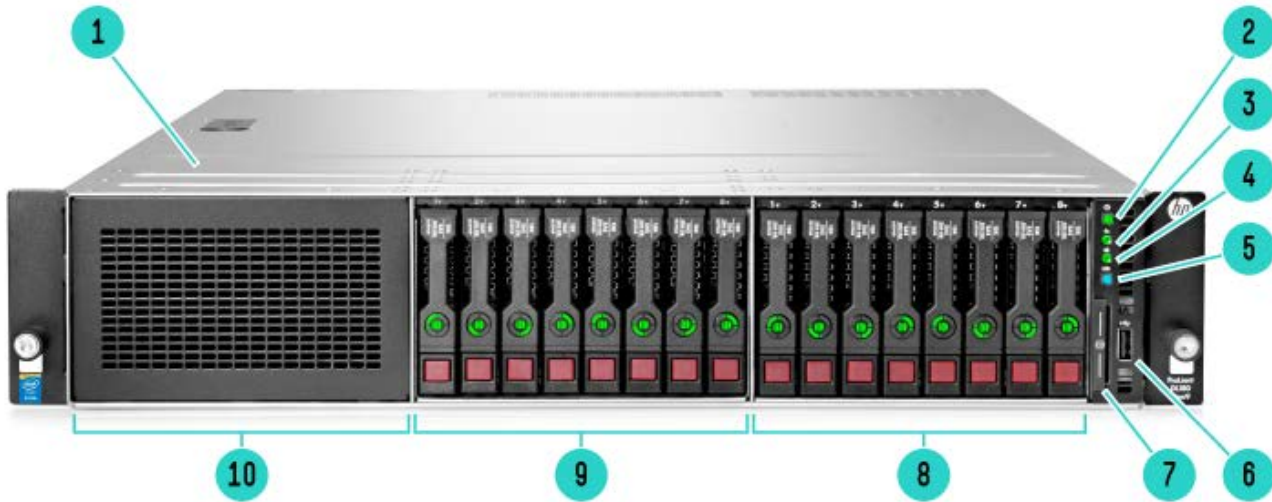
**HPE ProLiant ML110 Cloud Managed Server**

<b>Minimum Required Configuration</b>	INTEL XEON 6-CORE E5-2620V3/ 2.4GHZ, 32GB(4x8MiGB) DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT 330I ADAPTER, 1X 550W PS	
	HPE ProLiant ML110	777161-001
	32GB (4x8GB)	803028-B21
	ILO Essentials	BD775A
	4LFF HDD Cage	784584-B21
	1TB HDD(x2)	652753-B21
	2x1GB Ports	615732-B21
	Dedicated ilo	780310-B21
	3 Year NBD Service	U8JA5E

## Models

### HPE ProLiant DL180 Generation9 (Gen9)

The new standard for growing data center needs. Delivering an optimized 2U server, designed with the right balance of expandability, performance, reliability, and manageability—all in a new compact chassis. The ideal platform for SMBs and enterprises running applications, which need the right mix of compute and storage.

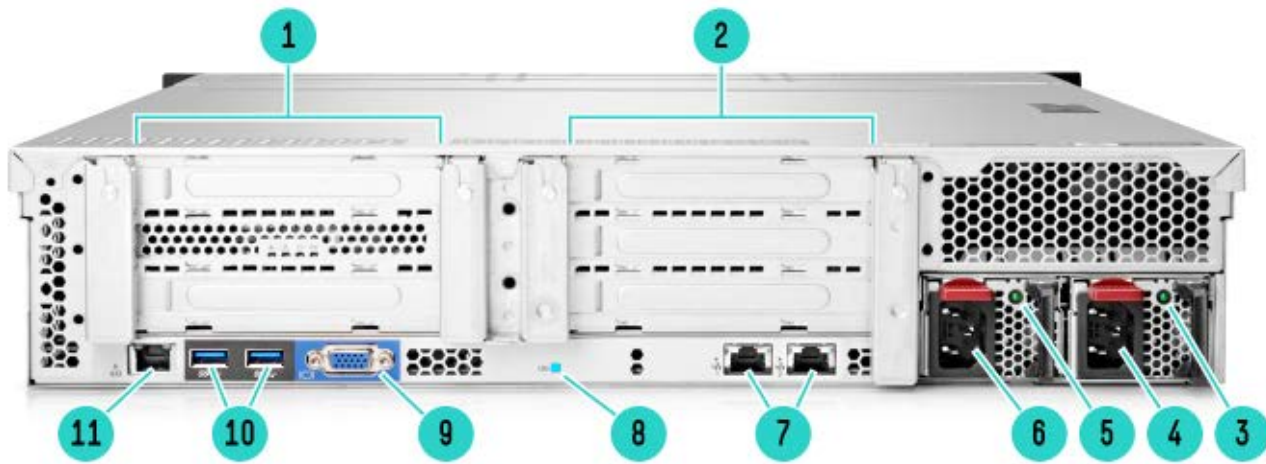


#### Front View

1. Access Panel ( Top Cover)
2. Power On/Standby button and system power LED
3. Health LED
4. NIC status LED
5. UID button/LED
6. USB 2.0 connector
7. Serial label pull tab
8. Fixed 8-bay SFF drive cage (box 3)
9. 8-bay SFF drive cage bay (box 2, for the second 8-bay SFF drive cage option)
10. HPE Media Bay (box 1, for the optical drive cage option)



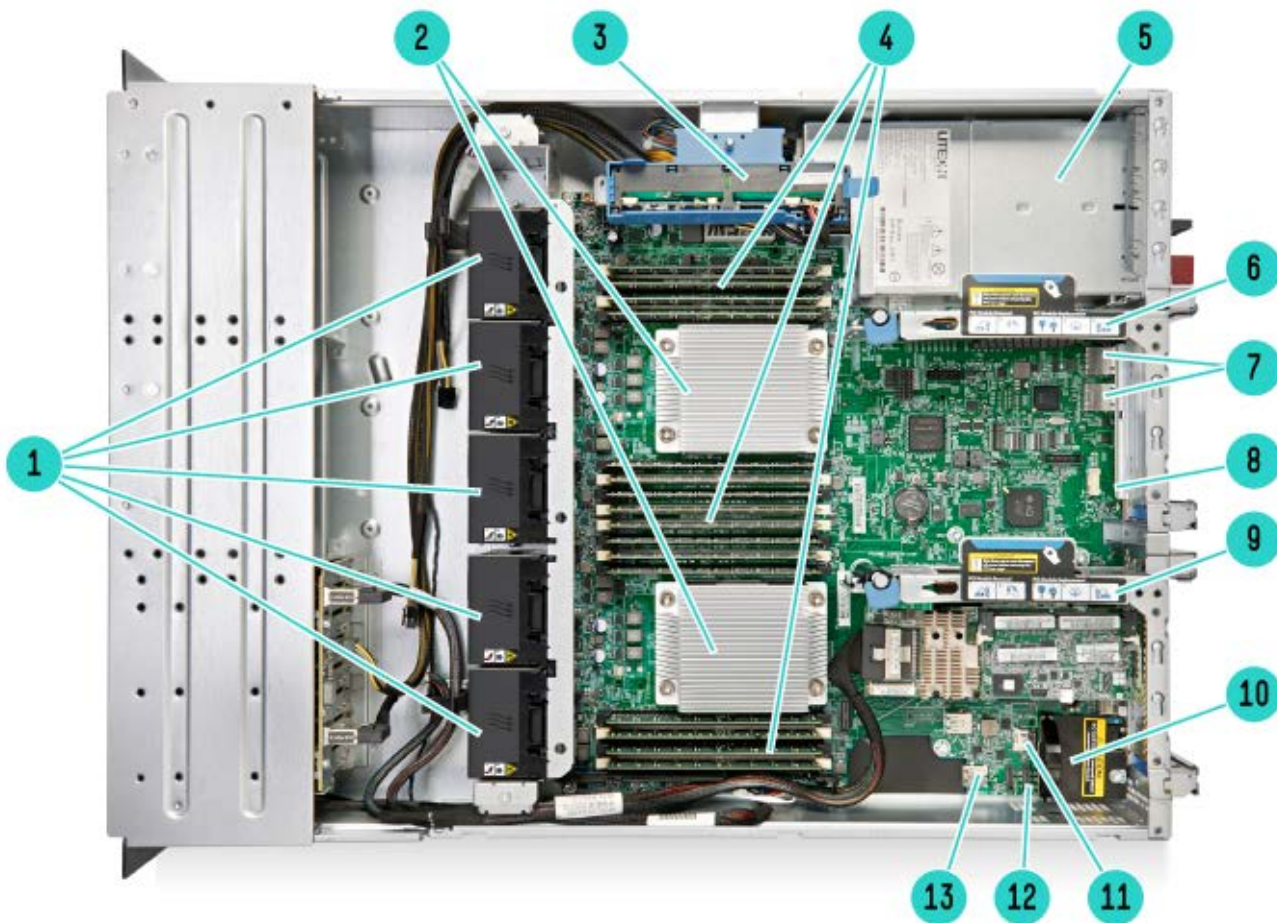
## Models



### Rear view

- |   |  |
|---|--|
| 1. PCIe3 slots 1-3 (primary, associated with processor 1)   | 7. NIC connectors                      |
| 2. PCIe3 slots 4-6 (secondary, associated with processor 2) | 8. UID LED                             |
| 3. Power Supply 2 LED (Optional)                            | 9. Video Connector                     |
| 4. Power Supply 2 Power Connector (Optional)                | 10. USB 3.0 Connectors                 |
| <b>NOTE: RPS shown in the picture.</b>                      |  |
| 5. Power Supply 1 LED (Optional)                            | 11. Dedicated iLO connector (optional) |
| 6. Power Supply 1 Power Connector (Optional)                |  |

## Models



### Internal View

1. Fan cage shown with 5 Hot-swap fans (for 2P Redundancy)
2. 2 Processors, heatsink showing, with HPE Smart Socket Guide
3. Optional HPE Smart Storage Battery
4. DDR4 DIMM slots. Shown fully populated in 16 slots (8 per processor)
5. Entry level power supply bay (1x900W shown)  
**NOTE: RPS (with one module) shown in the picture above.**
6. Connection for second (optional) riser (Required second CPU)
7. Embedded 2x1GbE NIC
8. Flexible LOM sideband signal connector
9. Primary PCIe riser, standard
10. Dedicated iLO module connector
11. MicroSD card slot
12. SATA optical drive connector
13. Internal USB 3.0 connector (for USB flash devices)

### What's New

- New HDD offering.

**[SKU Number]**

778456-B21

**QuickSpecs**

**HPE ProLiant Cloud Managed Servers**

**Models**

<b>Model Name</b>	HP ProLiant DL180 INTEL XEON 6-CORE E5-2603V3/ 1.6GHZ, 8GB(1X8GB) DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT NC361I ADAPTER, 8LFF HOT PLUG SATA, 1X 550W PS	
<b>Processor</b>	Intel® Xeon® E5-2603v3	
<b>Number of Processors</b>	One	
<b>Memory</b>	8GB (1x8GB Registered DIMMs, 2133 MHz)	
<b>Network Controller</b>	HP Ethernet 1Gb 2-port i350 Adapter	
<b>Storage Controller</b>	SMART ARRAY B140I	
<b>Hard Drive</b>	None ship standard	
<b>Internal Storage</b>	8 LFF HDD Bays (Hot Plug)	
<b>Optical Drive Bay</b>	Not Available	
<b>PCI-Express Slots</b>	3 Standard (1-FL/FH, 2-FH/HL)	
<b>Power Supply</b>	(1) HP 550W FIO Power Supply	
<b>Fans</b>	2 hot swap fans, non-redundant	
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Essentials (optional)	
<b>Energy Star</b>	Meets Energy Star requirements	
<b>Form Factor</b>	Rack (2U), HP Easy Install Rails with CMA	
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 1-Year Labor, 1-Year Onsite support with next business day response.	

**Upgrade Options**

<b>Processor</b>	HP DL180 Gen9 Intel® Xeon® E5-2640v3 (2.6GHz/8-core/20MB/90W) Processor Kit	719049-B21
<b>Memory</b>	HP 8GB (1x8GB) Single Rank x4 DDR4-2133 Standard Memory Kit	803028-B21
<b>Storage</b>	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
	HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
<b>Networking</b>	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21
<b>iLO</b>	HP dedicated iLO interface	780310-B21

**Required Services options**

<b>Base Software</b>	HPE CMIT DL180 Base NC SW 3yr LTU	P9B96A
	HPE CMIT DL180 Base SMB SW 3yr LTU	P9B97A
<b>Server</b>	3 Year Next Business Day DL180 Gen9 Foundation Care Service	U7AS7E
<b>iLO</b>	HP Integrated Lights-Out Essentials including 3yr 24x7 Tech Support and Updates Single Svr License	BD774A

**HPE Cloud Services**

<b>Curated Apps and Cloud</b>	HPE Cloud Managed IT Backup and Disaster Recovery per TB Current Configuration 3 Year LTU	P9C00A
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**Models**

<b>Services</b>	HPE Cloud Managed DL180 Next Gen Gateway 3 Year LTU	P9C03A
	HPE Cloud Managed Non-commercial RDS per User License 3 Year LTU	P9C10A
	HPE Cloud Managed SMB RDS per User License 3 Year LTU	P9C11A
	HPE Cloud Managed Non-commercial IT Windows Server per VOSE 3 Year LTU	P9C12A
	HPE Cloud Managed SMB IT Windows Server per VOSE 3 Year LTU	P9C13A
	HPE Cloud Managed IT Non-commercial Windows Data Center Per Appliance CPU 3 Year LTU	P9C14A
	HPE Cloud Managed IT SMB Windows Data Center per Appliance CPU 3 year LTU	P9C15A
	HPE Cloud Managed IT Web Filter per 500 Student 3 Year LTU	P9C16A

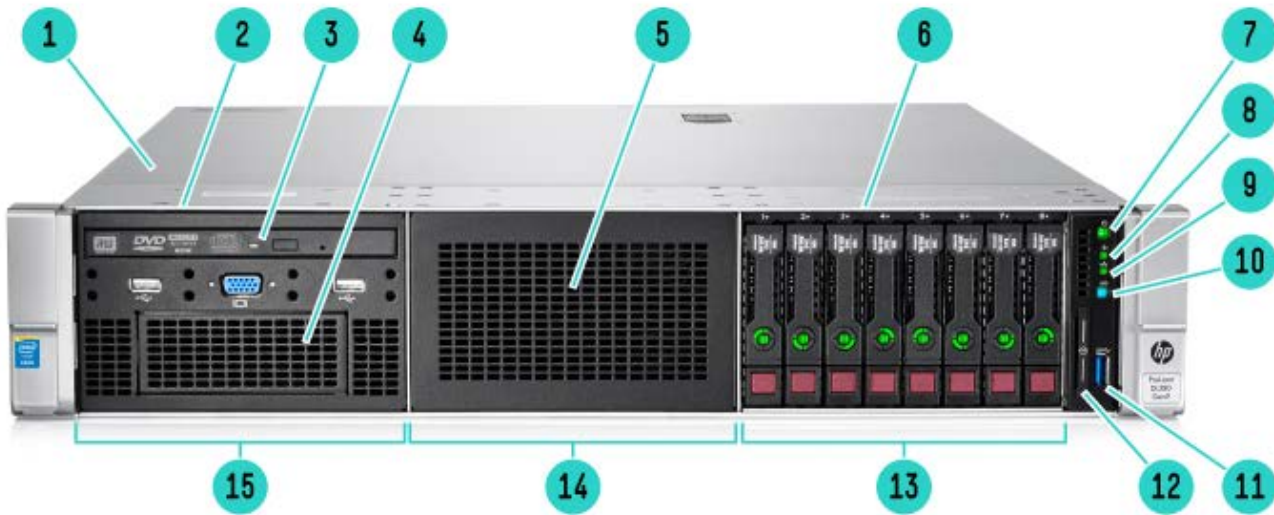
**HPE ProLiant DL180 Cloud Managed Server**

<b>Minimum Required Configuration</b>	INTEL XEON 6-CORE E5-2603V3/ 1.6GHZ, 64GB(4X16GB) DDR4 SDRAM, SMART ARRAY B140I WITHOUT FBWC, 1GB 2-PORT NC361I ADAPTER, 8LFF HOT PLUG SATA, 1X 550W	
	HPE ProLiant DL180	778453-B21
	Intel® Xeon® E5-2640v3	719049-B21
	64 GB STD	803028-B21
	ILO Essentials	BD775A
	2TB HDD (x4)	652757-B21
	2x1GB Ports	615732-B21
	Dedicated ilo	780310-B21
	Rail Kit	733664-B21
	3 Year NBD Service	U7AS7E

## Models

### HPE ProLiant DL380 Generation9 (Gen9)

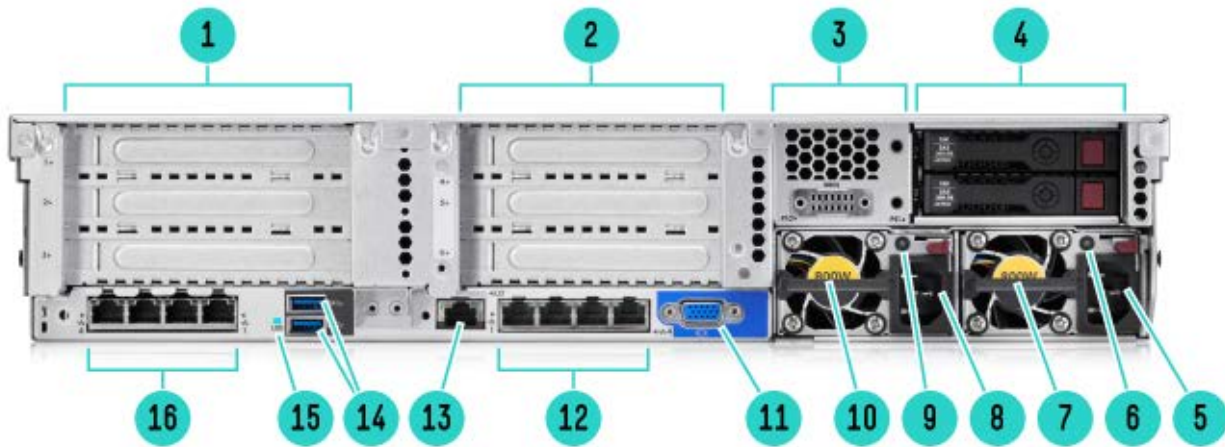
The HPE ProLiant DL380 Gen9 Server delivers the best performance and expandability in the HPE 2P rack portfolio. Reliability, serviceability and near continuous availability, backed by a comprehensive warranty, make it ideal for any environment. Deploy the data center standard.



#### Front View - 8SFF Chassis with Optional Universal Media Bay shown

- |  |                           |
|--|---------------------------|
| 1. Quick removal access panel  | 9. NIC status             |
| 2. Universal Media bay. 2 USB 2.0 and VGA standard (8SFF bay optional) | 10. UID button            |
| 3. Optional Optical drive. Requires Universal Media bay                | 11. USB 3.0               |
| 4. Optional 2 SFF HDD, blank shown. Requires Universal Media bay       | 12. Serial label pull tag |
| 5. Drive Bay 2. Blank shown, 8SFF or 6NVMe optional                    | 13. Bay 3                 |
| 6. 8 SFF Drive Cage Bay  | 14. Bay 2                 |
| 7. Power On/Standby button and system power LED button                 | 15. Bay 1                 |
| 8. Health LED  |                           |

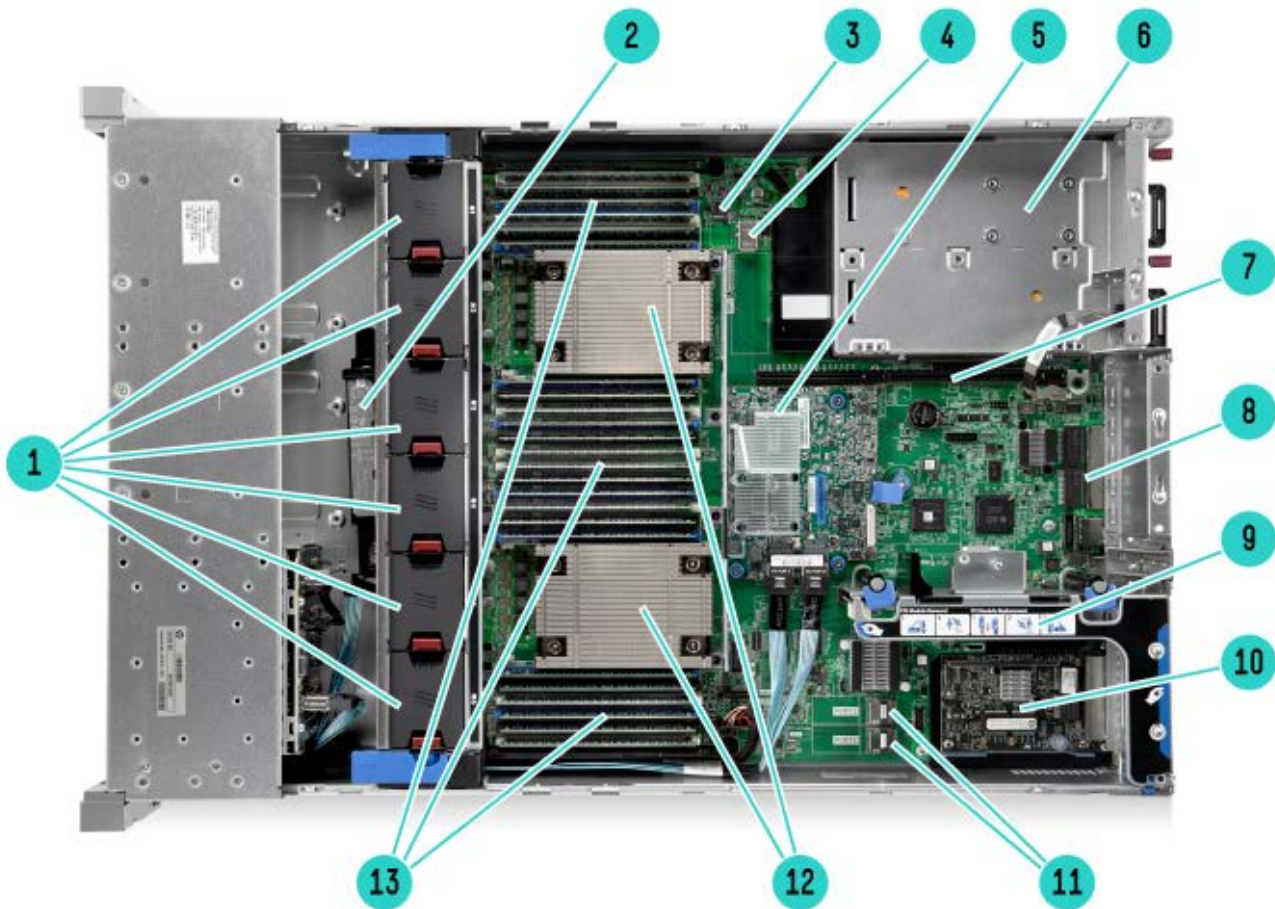
## Models



### Rear view

1. PCI Slots (Slots 1-3 top to bottom, riser shipped standard)
2. PCI Slots (Slots 4-6 top to bottom, requires second riser card, and second processor)
3. Optional serial port
4. Optional rear 2 SFF HDD (supported in 24 SFF or 12 LFF front end)
5. Power supply Power connection
6. Power supply Power LED
7. HPE Flexible Slot Power Supply bay 2 (800w shown)
8. Power supply Power connection
9. Power supply Power LED
10. HPE Flexible Slot Power Supply bay 1 (800w shown)  
**NOTE: Optional Micro UPS option.**
11. VGA connector
12. Embedded 4x1GbE Network Adapter
13. Dedicated iLO connector
14. USB 3.0 connectors (2)
15. Unit ID LED
16. Optional FlexibleLOM ports (Shown: 4x1GbE)

## Models



### Internal View

- |   |   |
|---|---|
| 1. Fan cage shown with 6 standard Hot-plug fans (High Performance fans optional)                          | 8. Embedded 4x1Gbe NIC  |
| 2. Optional HPE Smart Storage Battery   | 9. Primary PCIe riser, standard (Optional double wide GPU riser)          |
| 3. MicroSD card slot<br><b>NOTE: Optional Dual MicroSD.</b>   | 10. Optional Flexible LOM slot  |
| 4. Internal USB 3.0 connector   | 11. X4 SATA ports (1 and 2)   |
| 5. Optional HPE Flexible Smart Array or Smart HBA (H240ar shown)  | 12. 2 Processors, heatsink showing, with HPE Smart Socket Guide           |
| 6. (Under) Hot Plug redundant HPE Flexible Slot Power supplies<br><b>NOTE: Optional Micro UPS option.</b> | 13. DDR4 DIMM slots. Shown fully populated in 24 slots (12 per processor) |
| 7. Connection for second (optional) riser (Required second CPU)   |   |

### What's New

- New max capacity SFF Solid State Drives
- New Graphics option, NVIDIA M60

## Models

<b>[SKU Number]</b>	<b>752689-B21</b>
<b>Model Name</b>	HP ProLiant DL380INTEL XEON E5-2620V3/2.40GHZ, 16GB DDR4 SDRAM, HP SMART ARRAY P840AR WITH 4GB FBWC, 4X GIGABIT ETHERNET, 2X 800WATT PS
<b>Processor</b>	Intel® Xeon® E5-2620v3
<b>Number of Processors</b>	ONE
<b>Memory</b>	16GB (1x16GB Registered DIMMs, 2133 MHz)
<b>Network Controller</b>	HP Embedded 4x1Gb
<b>Storage Controller</b>	HP Flexible Smart Array P840ar/4GB
<b>Hard Drive</b>	None ship standard
<b>Internal Storage</b>	8 LFF HDD Bays
<b>PCI-Express Slots</b>	6 PCIe slots (includes second riser slot upgrade option)
<b>Power Supply</b>	(2) HP 800W Flex Slot Platinum Power Supply
<b>Fans</b>	6 hot plug fans, redundant
<b>Management</b>	iLO Management (standard), Intelligent Provisioning (standard), iLO Advanced (standard), HP OneView (optional)
<b>Energy Star</b>	Meets Energy Star requirements
<b>Form Factor</b>	Rack (2U), HP Easy Install Rails with CMA
<b>Warranty</b>	Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response

## Upgrade Options

<b>Processor</b>	HP DL380 Gen9 Intel® Xeon® E5-2690v3 (2.6GHz/12-core/30MB/135W)	719044-L21
<b>Memory</b>	HP 16GB (1x16GB) Dual Rank x4 DDR4-2133	726719-B21
<b>Storage</b>	HP 2TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	658079-B21
	HP 4TB 6G SATA 7.2k rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	693687-B21
	HP 6TB 6G SATA 7.2K rpm LFF (3.5-inch) SC Midline 1yr Warranty Hard Drive	753874-B21
<b>Networking</b>	HP Ethernet 1Gb 2-port 332T Adapter	615732-B21

## Required Services options

<b>Base Software</b>	HPE CMIT DL380 Base NC SW 3yr LTU	P9B98A
	HPE CMIT DL380 Base SMB SW 3yr LTU	P9B99A
<b>Care Pack</b>	3 Year Next Business Day DL180 Gen9 Foundation Care Service	U7AD9E

## HPE Cloud Services



**Models**

<b>Curated Apps and Cloud Services</b>	HPE Cloud Managed IT Backup and Disaster Recovery per TB Current Configuration 3 Year LTU	P9C00A
	HPE Cloud Managed IT DL380 Next Gen Gateway 3 Year LTU	P9C04A
	HPE Cloud Managed Non-commercial RDS per User License 3 Year LTU	P9C10A
	HPE Cloud Managed SMB RDS per User License 3 Year LTU	P9C11A
	HPE Cloud Managed Non-commercial IT Windows Server per VOSE 3 Year LTU	P9C12A
	HPE Cloud Managed SMB IT Windows Server per VOSE 3 Year LTU	P9C13A
	HPE Cloud Managed IT Non-commercial Windows Data Center Per Appliance CPU 3 Year LTU	P9C14A
	HPE Cloud Managed IT SMB Windows Data Center per Appliance CPU 3 year LTU	P9C15A
	HPE Cloud Managed IT Web Filter per 500 Student 3 Year LTU	P9C16A

**HPE ProLiant DL380 Cloud Managed Server**

<b>Minimum Required Configuration</b>	<b>INTEL XEON E5-2690V3, 64GB DDR4 SDRAM, HP SMART ARRAY P840AR WITH 4GB FBWC, 4X GIGABIT ETHERNET, 2X 800WATT PS</b>	
	DL180	752688-B21
	Intel® Xeon® E5-2690v3	719044-L21
	64 GB STD (4x16GB)	803028-B21
	2TB HDD (x4)	652757-B21
	Rail Kit	733664-B21
	3 Year NBD Service	U7AD9E

## Summary of Changes

Date	Version History	Action	Description of Change
1-Dec-2015	Version 1	Created	New QuickSpecs



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