

# HPE ProLiant DL160 Gen9 (2xE5-2680v4) 4-LFF

This top-of-line DL160 configuration is designed to "power" virtual machines or applications that are programmed to take advantage of multiple cores like web servers without requiring significant storage or redundancy capabilities. This model is equipped with two powerful processors, making ideal to be used by heavy applications balanced across multiple servers of this configuration.



### No Commitment - Price per Month

The price is for a full calendar month, regardless of how many days are within that month. You can request to cancel the service anytime ("no contract"), but the service will be terminated, regardless if it's used or not, in the last day of that month.

Prices does not include taxes

	Total
Monthly	\$500.32
One-Time Setup	\$0.00
Delivery in	

### PRODUCT SPECIFICATIONS

The price includes the system described below. Components marked with ● can be replaced with others in the same category from Alternative Options list. Some options might not work if they are mixed together in this system

Good For	Compute	
Processor Model	2x Xeon E5-2680 v4	
Processor Core	28 core, 56 threads in total for both CPUs	
Processor Frequency	2.4 GHz, turbo up to 3.3 GHz	
Processor Technology	HPE Gen9 with Intel Xeon Processor E5 v4 Family (Broadwell-EP platform)	
System Score	6840000 for a single core application (average frequency x RAM speed) 191520000 fo...	
Motherboard	HPE based on Intel C610 Series Chipset	
Power Supply	550W Single Power Supply with Silver-certified 80 Plus power efficiency (up to 89%)	
Power consumption	220W on average, 68W idle, 380W at maximum load	
Datacenter	Coresite LA2 in Los Angeles	<span style="color: yellow;">1</span>
Unit Size	1U rack form factor with a lenth of 23.9" / 60.8cm	
RAM	32 GB ECC Dual Rank, Registered DDR4 running at 2400 MHz	<span style="color: yellow;">2</span>
RAM	No RAM included in standard configuration	
RAM Type	DDR4	
RAM Upgrade	Up to 512 GB in this server configuration. The CPU has 4 memory channels, each one conne...	
Drives for 'OS'	1 x 240 GB (or more) SATA3 SSD	<span style="color: yellow;">3</span>
'OS' Storage Controller	HPE entry level B140i Controller embedded on motherboard. B140i supports SATA drives ...	
'OS' Drives	A dedicated SSD drive for the 'OS' (operating system) is available as a standard option. A seco...	
Remote Management	Dedicated iLO Remote Management Port - A dedicated chip that controls the server even w...	<span style="color: yellow;">4</span>
Remote Management	HPiLo4 Advanced over dedicated Ethernet management port. Console KVM over Internet; p...	
SLA for Hardware	Expert SLA for Hardware. Replacement in 4 hours Spare parts are available on site and Vox...	<span style="color: yellow;">5</span>
Connection Speed	1 Gbps	<span style="color: yellow;">6</span>
Operating System	Oracle Linux (free, CentOS replacement)	<span style="color: yellow;">7</span>
Backup with R1Soft	I don't need to backup this server using the datacenter backup services	<span style="color: yellow;">8</span>

## PRODUCT SPECIFICATIONS (continued...)

SLA for Software	Standard SLA for Software. Works as expected Unlimited number of requests for operating...	9
PCI Express Slots	Primary Riser Slot 1 PCIe 3.0 x16 full-height, half-length Slot 2 PCIe 3.0 x8 half-height, hal...	
'Data' Storage Controller	Optional. When not installed, 'Data' drives are connected to 'OS' Storage Controller	
'Data' Drives	No HDD/SSD for 'Data' included in standard configuration	
'Data' Drives Supported (Internal)	No Hard Drive included. Supports up to 4 hot-plug LFF (3.5") or SFF (2.5") SATA/SAS. SAS d...	
Ethernet Ports	2 x 1 Gbs network ports embedded on motherboard via HPE Ethernet 361i network Adapt...	

## Location

### Colocation

Datacenter 1	Setup	Monthly
Datacenter: Coresite LA1 (One Wilshire)	-	+\$48.80
Datacenter: Equinix DA3	-	+\$22.93
Datacenter: ColoHouse Miami	-	-\$2.70
Datacenter: Equinix MIA1 (formerly Terremark N.	-	+\$85.04

### Colocation (continued...)

Datacenter (continued...) 1	Setup	Monthly
Datacenter: Coresite VA1	-	+\$1.04
Datacenter: Equinix DC2	-	+\$75.12
Datacenter: Customer Rented Cabinet	-	-\$50.00

## Hardware

### RAM

RAM 2	Setup	Monthly
64 GB ECC Dual Rank, Registered DDR4 running.	-	+\$40.00
96 GB ECC Dual Rank, Registered DDR4 running.	-	+\$80.00
128 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$120.00
192 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$176.00
256 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$248.00
320 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$320.00
384 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$392.00
448 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$464.00
512 GB ECC Dual Rank, Registered DDR4 runnin.	-	+\$536.00

### 'OS' Storage

Drives for 'OS' 3	Setup	Monthly
2 x 240 GB (or more) SATA3 SSD	-	+\$6.00

### 'Data' SSD/HDD Storage

RAID Controller for Internal Drives	Setup	Monthly
HP RAID P222 Smart Array (512MB, flash)	-	+\$20.00
HPE RAID P440 Smart Array (4GB, flash)	-	+\$40.00

SSD Datacenter (SATA)	Setup	Monthly
1 x 120 GB SATA3 SSD Intel DC S3500	-	+\$5.25
1 x 240 GB SATA3 SSD Intel DC S3510	-	+\$10.50
2 x 240 GB SATA3 SSD Intel DC S3510	-	+\$21.00
3 x 240 GB SATA3 SSD Intel DC S3510	-	+\$31.50
4 x 240 GB SATA3 SSD Intel DC S3510	-	+\$42.00
1 x 480 GB SATA3 SSD Intel DC S3510	-	+\$21.00
2 x 480 GB SATA3 SSD Intel DC S3510	-	+\$42.00
3 x 480 GB SATA3 SSD Intel DC S3510	-	+\$63.00
4 x 480 GB SATA3 SSD Intel DC S3510	-	+\$84.00

### 'Data' SSD/HDD Storage (continued...)

SSD Datacenter (SATA) (continued...)	Setup	Monthly
1 x 480 GB SATA3 SSD Intel DC S3520	-	+\$21.00
2 x 480 GB SATA3 SSD Intel DC S3520	-	+\$42.00
3 x 480 GB SATA3 SSD Intel DC S3520	-	+\$63.00
4 x 480 GB SATA3 SSD Intel DC S3520	-	+\$84.00
1 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$21.00
2 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$41.00
3 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$62.00
4 x 480 GB SATA3 SSD Intel D3-S4510	-	+\$82.00
1 x 800 GB SATA3 SSD Intel DC S3510	-	+\$35.00
2 x 800 GB SATA3 SSD Intel DC S3510	-	+\$70.00
3 x 800 GB SATA3 SSD Intel DC S3510	-	+\$105.00
4 x 800 GB SATA3 SSD Intel DC S3510	-	+\$140.00
1 x 960 GB SATA3 SSD Intel DC S3520	-	+\$42.00
2 x 960 GB SATA3 SSD Intel DC S3520	-	+\$84.00
3 x 960 GB SATA3 SSD Intel DC S3520	-	+\$126.00
4 x 960 GB SATA3 SSD Intel DC S3520	-	+\$168.00
1 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$39.00
2 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$78.00
3 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$117.00
4 x 960 GB SATA3 SSD Intel D3-S4510	-	+\$156.00
1 x 1.92 TB SATA3 SSD Intel DC S4500	-	+\$84.00
2 x 1.92 TB SATA3 SSD Intel DC S4500	-	+\$168.00
1 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$76.00
2 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$153.00
3 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$229.00
4 x 1.92 TB SATA3 SSD Intel D3-S4510	-	+\$306.00
1 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$149.00
2 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$298.00
3 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$447.00
4 x 3.84 TB SATA3 SSD Intel D3-S4510	-	+\$596.00

# Hardware (continued...)

## 'Data' SSD/HDD Storage (continued...)

SSD Desktop (SATA)	Setup	Monthly
1 x 120 GB SSD OCZ Vertex3	-	+\$5.25
2 x 120 GB SSD OCZ Vertex3	-	+\$10.50
4 x 120 GB SSD OCZ Vertex3	-	+\$21.00
3 x 120 GB SSD OCZ Vertex3	-	+\$15.75
1 x 120 GB SSD Intel 520/530/535	-	+\$5.25
2 x 120 GB SSD Intel 520/530/535	-	+\$10.50
3 x 120 GB SSD Intel 520/530/535	-	+\$15.75
4 x 120 GB SSD Intel 520/530/535	-	+\$21.00
1 x 120 GB SSD Crucial BX100	-	+\$5.25
2 x 120 GB SSD Crucial BX100	-	+\$10.50
3 x 120 GB SSD Crucial BX100	-	+\$15.75
4 x 120 GB SSD Crucial BX100	-	+\$21.00
1 x 128 GB SSD OCZ Vertex4	-	+\$5.60
2 x 128 GB SSD OCZ Vertex4	-	+\$11.20
1 x 240 GB SSD OCZ Vertex3	-	+\$10.50
2 x 240 GB SSD OCZ Vertex3	-	+\$21.00
4 x 240 GB SSD OCZ Vertex3	-	+\$42.00
1 x 240 GB SSD Intel 520/530/535	-	+\$10.50
2 x 240 GB SSD Intel 520/530/535	-	+\$21.00
3 x 240 GB SSD Intel 520/530/535	-	+\$31.50
4 x 240 GB SSD Intel 520/530/535	-	+\$42.00
1 x 250 GB SSD Crucial MX200	-	+\$10.94
2 x 250 GB SSD Crucial MX200	-	+\$21.88
3 x 250 GB SSD Crucial MX200	-	+\$32.81
4 x 250 GB SSD Crucial MX200	-	+\$43.75
1 x 480 GB SSD Intel 520/530/535	-	+\$16.15
2 x 480 GB SSD Intel 520/530/535	-	+\$32.31
1 x 500 GB SSD Crucial MX200	-	+\$16.00
2 x 500 GB SSD Crucial MX200	-	+\$33.00
3 x 500 GB SSD Crucial MX200	-	+\$49.00
4 x 500 GB SSD Crucial MX200	-	+\$66.00
1 x 512 GB SSD Crucial MX100	-	+\$16.00
2 x 512 GB SSD Crucial MX100	-	+\$33.00
1 x 1 TB SSD Crucial MX200	-	+\$25.00
2 x 1 TB SSD Crucial MX200	-	+\$50.00
3 x 1 TB SSD Crucial MX200	-	+\$75.00
4 x 1 TB SSD Crucial MX200	-	+\$100.00
HDD Enterprise (SATA)	Setup	Monthly
1 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr...	-	+\$15.00
2 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr...	-	+\$30.00
3 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr...	-	+\$45.00
4 x 4 TB SATA3 HDD Seagate, 4.16 ms, Enterpr...	-	+\$60.00
1 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$35.00
2 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$71.00
3 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$106.00
4 x 12 TB SATA3 HDD Seagate, 4.16 ms, Enter...	-	+\$141.00
HDD Archive (SATA)	Setup	Monthly
1 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$3.00

## 'Data' SSD/HDD Storage (continued...)

HDD Archive (SATA) (continued...)	Setup	Monthly
2 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$6.00
3 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$9.00
4 x 500 GB SATA3 HDD, 7200rpm, Archive-cla...	-	+\$12.00
1 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$5.00
2 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$10.00
3 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$15.00
4 x 1 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$20.00
1 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$6.00
2 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$12.00
3 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$18.00
4 x 1,5 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$24.00
1 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$7.00
2 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$14.00
3 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$21.00
4 x 2 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$28.00
1 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$9.00
2 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$19.00
3 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$28.00
4 x 3 TB SATA3 HDD, 7200rpm, Archive-class	-	+\$38.00

## 'Data' NVMe Storage

NVMe Datacenter Card	Setup	Monthly
1 x 2 TB NVMe PCIe x4 card Intel P3600	-	+\$149.00
2 x 2 TB NVMe PCIe x4 card Intel P3600	-	+\$298.00

## 'Data' External Storage

Storage Boxes Connectivity	Setup	Monthly
External SAS/SATA port to connect one external...	-	-
External SAS/SATA ports to connect 2 external S.	-	-
External SAS/SATA ports to connect 3-4 externa.	-	-

## Network Cards

Ethernet 1G Cards (PCIe)	Setup	Monthly
1 x Intel Gigabit I350-T2 Server Adapter (2 x R)...	-	+\$13.00
2 x HP Gigabit 361T Ethernet Server Adapter (2...	-	+\$28.00
1 x Intel Gigabit CT Desktop Adapter (1 x R)45)	-	+\$3.00
Ethernet 10G Cards (PCIe)	Setup	Monthly
1 x Intel TenGigabit X520-DA2 Server Adapter,...	-	+\$28.90
2 x Intel TenGigabit X520-DA2 Server Adapter,...	-	+\$57.80
1 x Intel TenGigabit X710-DA4 Server Adapter,...	-	+\$41.00
2 x Intel TenGigabit X710-DA4 Server Adapter,...	-	+\$82.00
1 x Intel TenGigabit X722-DA4 Server Adapter,...	-	+\$49.00
Ethernet 40G Cards (PCIe)	Setup	Monthly
1 x Intel XL710-QDA2 Ethernet Server Adapter...	-	+\$46.50
2 x Intel XL710-QDA2 Ethernet Server Adapter...	-	+\$93.00

# Hardware (continued...)

## Other Server Hardware

TPM Microcontroller	Setup	Monthly
HP TPM Module	+\$16.20	+\$9.72

# Connectivity

## Network Access

Connection Speed <b>6</b>	Setup	Monthly
2 Gbps (2 x 1 Gbps LACP)	-	+\$5.40
4 Gbps (4 x 1 Gbps LACP)	-	+\$21.60
10 Gbps	-	+\$32.40
20 Gbps (2 x 10 Gbps LACP)	-	+\$64.80
40 Gbps (4 x 10 Gbps LACP)	-	+\$129.60

## Network Access (continued...)

Connection Speed (continued...) <b>6</b>	Setup	Monthly
40 Gbps	-	+\$86.40
80 Gbps (2 x 40 Gbps LACP)	-	+\$162.00
100 Gbps	-	+\$313.20
200 Gbps (2 x 100 Gbps LACP)	-	+\$540.00

# Software

## Software

Operating System <b>7</b>	Setup	Monthly
CentOS	-	-
Fedora	-	-
Debian	-	-
Ubuntu	-	-
FreeBSD	-	-
CloudLinux	-	+\$12.85
Windows Server 2022 Standard (14 x 2-core li...	-	+\$98.28
Windows Server 2022 Datacenter (14 x 2-core..	-	+\$681.87
Windows Server 2019 Standard (14 x 2-core li...	-	+\$98.28
Windows Server 2019 Datacenter (14 x 2-core..	-	+\$681.87
Windows Server 2016 Standard (14 x 2-core li...	-	+\$98.28
Windows Server 2016 Datacenter (14 x 2-core..	-	+\$681.87
A different operating system	-	-

  

Control Panel Software	Setup	Monthly
cPanel / WHM running inside a virtual server (up ...	-	+\$27.60
cPanel / WHM running inside 2 virtual servers (up.	-	+\$55.20

## Software (continued...)

Control Panel Software (continued...)	Setup	Monthly
cPanel / WHM running inside 3 virtual servers (up.	-	+\$82.80
cPanel / WHM running inside 4 virtual servers (up.	-	+\$110.40
cPanel / WHM running inside 5 virtual servers (up.	-	+\$138.00

## Backup

Backup with R1Soft <b>8</b>	Setup	Monthly
Full Server Backup with R1Soft Software	-	+\$6.00

## Software Support

SLA for Software <b>9</b>	Setup	Monthly
Advisory SLA for Software	+\$216.00	+\$64.80
Expert SLA for Software	+\$216.00	+\$129.60
Ultimate SLA for Software	+\$324.00	+\$313.20