

# Hewlett Packard Enterprise ProLiant DL20 Gen9 server (823559-B21)

Intel Xeon E3-1240 v5 (3.5GHz, 8MB), 8GB (1 x 8GB) DDR4, 4SFF HDD, H240 Host Bus Adapter, 290W PS



## Price details:

Price excl. VAT: 984.91 €

Eco fees: 0.00 €

VAT 21 %: 206.83 €

## Product details:

Product code: 823559-B21

EAN: 0889296878933

Manufacturer: Hewlett Packard Enterprise

**1,191.74 €**

\* VAT included

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Are you looking for a compact 1U server that works in a variety of environments? The dense and compact HPE ProLiant DL20 Gen9 Server powered by Intel® Pentium®, Core i3 and E3-1200v5 processors provides a unique blend of enterprise-class capabilities at a great value-making it an ideal rack server platform for growing businesses and service providers. It offers outstanding configuration flexibility to cater to a wide variety of business requirements at an affordable price point.

The DL20 Gen9 Server offers a range of HPE Qualified options to fit most needs like affordable drives for light workloads, solid state drives for the demanding requirements, from a single non-hot plug power supply to an efficient HPE Hot Plug Redundant Power supply, from multiple storage controllers to the HPE FlexibleLOM networking cards-helping customers find the right configuration for their workloads.

## Features

### Optimized Reliable Solution

- The HPE ProLiant DL20 Gen9 Server is a 1P 1U rack server that combines the right balance of performance, expandability, reliability and manageability for a variety of business needs.
- The DL20 Gen9 Server combines a dense and compact form factor with redundant power supply capability which keeps your business running and provides data protection and accessibility even in the event of a power supply failure.
- Customers can protect against data loss and downtime with the enhanced error handling of HPE DDR4 ECC memory options while also improving workload performance and power efficiency.
- Trusted and proven HPE Smart Array technology provides businesses with protection for critical data through RAID mirroring and striping capability and, with FBWC up to 4 GB, captures and holds data indefinitely in the event of a power loss, equipment failure, or human error.
- Your business cannot afford disruptions due to downtime on your server. HPE Insight Online with HPE Insight Remote Support provides 24x7 remote monitoring with anywhere, anytime personalized access to your IT and support status to get your business up and running.

### Ease of Use for Many Environments and Workloads

- The HPE ProLiant DL20 Gen9 Server is a short-depth chassis of 15.05" providing mobility and easy deployment in a wide variety of environments.
- The HPE embedded management solution based on HPE iLO 4 provides simple, versatile and comprehensive tools to deploy, manage and troubleshoot servers-even for customers with limited IT resources.
- The DL20 Gen9 Server has the great quality and design features that are a hallmark of the ProLiant family such as tool-less access to system components and enhanced serviceability.
- Trusted and proven HPE Smart Array technology provides businesses with protection for critical data through RAID mirroring and striping capability and, with FBWC up to 4 GB, captures and holds data indefinitely in the event of a power loss, equipment failure, or human error.

### Great Combination of Performance and Efficiency

- The HPE ProLiant DL20 Gen9 Server supports Flex LOM which enables next-generation network capability for faster data transfer.
- You have a wide choice of dual core and quad core Intel Pentium and Xeon® E3-1200 processors with up to 64 GB of

DDR4 ECC memory to handle any demands that your workload might make on the HPE ProLiant DL20 Gen9 Server.  
- The DL20 Gen9 Server consumes up to 29% less power compared to the previous generation which combined with the efficient, redundant power supply solution provides you with an Energy Star® certified power saving solution.

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#### Main specifications:

##### Processor

Processor frequency:	3.5 GHz
Processor family:	Intel Xeon E3 v5
Processor model:	E3-1240V5
Processor cores:	4
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	8 MB
System bus rate:	8 GT/s
Processor socket:	LGA 1151 (Socket H4)
Processor boost frequency:	3.90 GHz
Processor lithography:	14 nm
Processor threads:	8
Processor operating modes:	32-bit,64-bit
Stepping:	R0
Bus type:	DMI3
Processor codename:	Skylake
Maximum internal memory supported by processor:	64 GB
Memory types supported by processor:	DDR3L-SDRAM,DDR4-SDRAM
Memory clock speeds supported by processor:	1333,1600,1866,2133 MHz
Memory bandwidth supported by processor (max):	34.1 GB/s
Memory channels supported by processor:	Dual
ECC supported by processor:	Y
Memory voltage supported by processor:	1.35 V
Execute Disable Bit:	Y
Idle States:	Y
Thermal Monitoring Technologies:	Y
Maximum number of PCI Express lanes:	16
PCI Express configurations:	1x16,2x8,1x8+2x4
Processor package size:	37.5 x 37.5 mm
Supported instruction sets:	AVX 2.0,SSE4.1,SSE4.2
Processor code:	SR2LD
Scalability:	1S
Embedded options available:	N
Graphics & IMC lithography:	14 nm
Thermal Design Power (TDP):	80 W
Processor series:	Intel Xeon E3-1200 v5
Conflict Free processor:	Y

##### Memory

Internal memory:	8 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	64 GB
Memory slots:	4 DIMM
Memory clock speed:	2133 MHz
ECC:	Y
Memory layout (slots x size):	1 x 8 GB

##### Storage

Hard drive size:	2.5 "
Hard drive interface:	Serial ATA,Serial Attached SCSI (SAS)
RAID support:	Y
Maximum storage capacity:	8 TB
RAID levels:	0,1,5
Hot-Plug support:	N
Number of hard drives supported:	4

##### Networking

Ethernet LAN:	Y
Cabling technology:	10/100/1000Base-T(X)

Ethernet interface type:	Gigabit Ethernet
<b>Ports &amp; interfaces</b>	
USB 2.0 ports quantity:	2
VGA (D-Sub) ports quantity:	1
Ethernet LAN (RJ-45) ports:	2
USB 3.0 (3.1 Gen 1) Type-A ports quantity:	2
<b>Expansion slots</b>	
PCI Express slots version:	3.0
<b>Design</b>	
Chassis type:	Rack (1U)
Optical drive type:	N
<b>Performance</b>	
Operating system installed:	N
Compatible operating systems:	Microsoft Windows ServerRed Hat Enterprise Linux (RHEL)SUSE Linux Enterprise Server (SLES)VMware
<b>Processor special features</b>	
CPU configuration (max):	1
Intel® Matrix Storage Technology (Intel® MST):	N
Enhanced Intel SpeedStep Technology:	Y
Intel® Wireless Display (Intel® WiDi):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Hyper Threading Technology (Intel® HT Technology):	Y
Intel® Smart Response Technology:	N
Intel® Turbo Boost Technology:	2.0
Intel® vPro® Technology:	Y
Intel® Quick Sync Video Technology:	N
Intel® InTru® 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT for HD):	N
Intel® Insider®:	N
Intel® Smart Cache:	Y
Intel® AES New Instructions (Intel® AES-NI):	Y
Intel Trusted Execution Technology:	Y
Intel Enhanced Halt State:	Y
Intel VT-x with Extended Page Tables (EPT):	Y
Intel® Secure Key:	Y
Intel TSX-NI:	Y
Intel® OS Guard:	Y
Intel® Small Business Advantage (Intel® SBA):	N
Intel® Built-in Visuals Technology:	N
Intel Clear Video Technology:	N
Intel Software Guard Extensions (Intel SGX):	Y
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
Intel 64:	Y
Intel Virtualization Technology (VT-x):	Y
Intel® Active Management Technology (Intel® AMT):	N
Intel Smart Connect Technology:	N
Intel® High Definition Audio (Intel® HD Audio):	N
Intel HD Graphics:	N
Intel® Rapid Start Technology:	N
Processor ARK ID:	88176
<b>Power</b>	
Redundant power supply (RPS) support:	N
Power supply:	290 W
Number of main power supplies:	1
<b>Certificates</b>	
Energy Star certified:	Y
<b>Weight &amp; dimensions</b>	
Width:	434.6 mm
Depth:	382.2 mm
Height:	43.2 mm
Weight:	8700 g
<b>Other features</b>	
Graphics adapter:	G200

Graphics adapter family:

Matrox

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