

# Hewlett Packard Enterprise ProLiant DL160 Gen9 server (769505-B21)

Intel Xeon E5-2609 v3 (1.9GHz, 15MB), 16GB (2 x 8GB) RDIMM, 8 SFF HDD, H240 Host Bus Adapter, 550W PS



## Price details:

Price excl. VAT: 2,492.84 €

Eco fees: 0.08 €

VAT 21 %: 523.51 €

## Product details:

Product code: 769505-B21

EAN: 4514953729926

Manufacturer: Hewlett Packard Enterprise

**3,016.43 €**

\* VAT included

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Do you need a server with essential features for your IT environment, which is constrained by budget, space or IT resources? The HP ProLiant DL160 Gen9 Server delivers the right balance of performance, storage, reliability, manageability and efficiency in a dense and compact chassis, to meet the needs of a diverse set of customers - from SMBs to service providers with a wide range of deployments - from general purpose IT infrastructure to the emerging "New Style of IT" deployments like cloud and big data in distributed computing environments.

## Features

### Essential Combination of Performance, Manageability and Storage for the IT Needs of SMBs

- The HP ProLiant DL160 Gen9 offers 16 DIMM slots of HP DDR4 SmartMemory, with built-in intelligence to reduce downtime and up to 14% 1 better throughput performance.
- Embedded management to deploy, monitor and support your server remotely, out of band with HP iLO makes it easier to manage complex IT environments thereby minimizing the IT resource requirements.
- Supports up to two (2) Intel® Xeon® processor E5-2600 v3 processors offering improved performance and efficiency.
- HP SmartDrives continue to deliver optimal performance, capacity, and reliability to meet various customer segments and workload requirements at the right economics. Supports up to four (4) LFF and eight (8) SFF 12 Gb/s with flexibility of four (4) LFF NHP option.
- Embedded SATA HP Dynamic Smart Array B140i Controller for boot and data. Choice of HP Smart Array Controllers with increased performance, data availability with the 12Gb/s SAS technology or HP Smart HBAs with reliable high performance SAS connectivity capable of running HBA mode or simple RAID mode.

### Scalability and Efficiency in a Dense Design for Hyperscale Environments

- The HP ProLiant DL160 Gen9 offers dense and efficient design at a price point that provides agile horizontal expansion capability for distributed computing environments like Hadoop, NoSQL to cope-up with fast growing business needs.
- Standard with 2x1GbE, up to three (3) PCIe slots and choice of HP FlexibleLOM 2 provide you flexibility of networking bandwidth and fabric so you can adapt and grow to changing business needs.
- Up to 94% 2 efficient 80 PLUS certified entry-level HP Power Supplies and ENERGY STAR® 2 qualified server configurations illustrate a continued commitment to helping customers conserve energy and save money.
- Improved ambient temperature standard with ASHRAE A3 and A4 3 helps customers reduce cooling expense.

### Agile Infrastructure Management for Accelerating IT Service Delivery

- With HP ProLiant DL160 server, HP OneView 4 provides converged management for automation simplicity across servers, storage and networking.
- Online personalized dashboard for converged infrastructure health monitoring and support management with HP Insight Online.
- Configure in UEFI boot mode, provision local and remote with Intelligent Provisioning and Scripting Toolkits.
- Embedded management to deploy, monitor and support your server remotely, out of band with HP iLO and optimize firmware and driver updates and reduce downtime with HP Smart Update, consisting of HP SUM and SPP.

Main specifications:

## Processor

Processor frequency:	1.9 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-2609V3
Processor cores:	6
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	15 MB
System bus rate:	6.4 GT/s
Maximum number of SMP processors:	2
Processor socket:	LGA 2011-v3
Motherboard chipset:	Intel C610
Processor lithography:	22 nm
Processor threads:	6
Processor operating modes:	64-bit
Stepping:	M1
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	70.9 °C
Maximum internal memory supported by processor:	768 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866,2133 MHz
Memory bandwidth supported by processor (max):	51 GB/s
Memory channels supported by processor:	Quad
ECC supported by processor:	Y
Execute Disable Bit:	Y
Idle States:	Y
Thermal Monitoring Technologies:	Y
Maximum number of PCI Express lanes:	40
PCI Express configurations:	x4, x8, x16
Processor package size:	52.5 mm
Supported instruction sets:	AVX 2.0
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	Y
Thermal Design Power (TDP):	85 W
Processor series:	Intel Xeon E5-2600 v3
Conflict Free processor:	N

## Memory

Internal memory:	16 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	512 GB
Memory slots:	16 DIMM
Memory clock speed:	2133 MHz
ECC:	Y
Memory layout (slots x size):	2 x 8 GB

## Storage

Hard drive size:	2.5 "
Hard drive interface:	Serial ATA,Serial Attached SCSI (SAS)
RAID support:	Y
Maximum storage capacity:	16 TB
RAID levels:	0,1,5
Number of hard drives supported:	8

## Networking

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

## Ports & interfaces

USB 2.0 ports quantity:	1
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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)Oracle SolarisVMware
<b>Processor special features</b>	
CPU configuration (max):	2
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	N
Intel® Wireless Display (Intel® WiDi):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Anti-Theft Technology (Intel® AT):	N
Intel® Hyper Threading Technology (Intel® HT Technology):	Y
Intel® My WiFi Technology (Intel® MWT):	N
Intel® Turbo Boost Technology:	N
Intel® vPro® Technology:	Y
Intel® Quick Sync Video Technology:	N
Intel® InTru® 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel® Insider®:	N
Intel Flex Memory Access:	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 Demand Based Switching:	Y
Intel® Secure Key:	Y
Intel TSX-NI:	N
Intel® OS Guard:	Y
Intel Clear Video Technology:	N
Intel® Clear Video Technology for Mobile Internet Devices (Intel CVT for MID):	N
Intel 64:	Y
Intel Identity Protection Technology version:	0.00
Intel Secure Key Technology version:	1.00
Intel Virtualization Technology (VT-x):	Y
Intel TSX-NI version:	0.00
Intel Dual Display Capable Technology:	N
Intel FDI Technology:	N
Intel Fast Memory Access:	N
Processor ARK ID:	81897
<b>Power</b>	
Redundant power supply (RPS) support:	N
Power supply:	550 W
Number of main power supplies:	1
<b>Certificates</b>	
Energy Star certified:	N
<b>Weight &amp; dimensions</b>	
Width:	434.6 mm
Depth:	607.6 mm
Height:	43.5 mm
Weight:	10160 g
<b>Other features</b>	
Graphics adapter:	G200eH2
Graphics adapter family:	Matrox

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