

# Hewlett Packard Enterprise ProLiant DL560 server (741066-B21)

Intel Xeon E5-4640 v3 (12 core, 1.9 GHz, 30MB, 105W), 128GB (8x16GB) RDIMM, 2U, 1200W



## Price details:

Price excl. VAT: 25,757.74 €

Eco fees: 0.00 €

VAT 21 %: 5,409.13 €

## Product details:

Product code: 741066-B21

EAN: 0888793300466

Manufacturer: Hewlett Packard Enterprise

**31,166.87 €**

\* VAT included

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Looking for a dense but highly scalable solution for your data center application and virtualization needs? The HP ProLiant DL560 Gen9 Server is the high-density four-socket (4S) server with balanced performance, increased scalability and reliability, all in a 2U chassis. Supporting the latest Intel® Xeon® E5-4600 v3 processors, the DL560 Gen9 Server offers greater processing power, along with increased storage capacity, IO bandwidth of up to seven PCIe Gen 3.0 slots, up to 3 TBs of memory, plus the intelligence and simplicity of automated management with HP OneView and HP iLO 4.

The DL560 Gen9 Server is the ideal server for virtualization, server consolidation, database, business processing, and general 4P data-intensive applications where data center space and price/performance are paramount.

## Features

### 4-Socket Performance in a Dense 2U Form Factor

Providing 4S computing in a dense 2U form factor, the HP ProLiant DL560 Gen9 Server supports up to four Intel® Xeon® E5-4600v3 processors with up to 39% more processor performance and 50% more cores than the previous generation.

The HP Flexible Smart Array and HP Smart SAS HBA Controllers, with support of up to 4 GB FBWC, allow you the flexibility to choose the optimal 12 Gb/s controller most suited to your environment. Along with the embedded SATA HP Dynamic Smart Array B140i Controller for boot, data and media needs.

HP DDR4 SmartMemory improves workload performance and power efficiency while preventing data loss and downtime with enhanced error handling. Support for up to 3 TB DDR4 max capacity (48 DIMM slots) with speeds up to 2133 MHz with up to 14% 2 performance gain.

### New Generation Expandability and Reliability for Multi-workloads

The HP ProLiant DL580 Gen9 Server supports up to seven PCIe 3.0 expansion slots, to support a GPU and networking cards offering increased IO bandwidth and expandability.

Achieve greater capacity with a redesigned chassis including up to 24 Small Form Factor(SFF) HP SmartDrives and NVMe options; along with an optional HP Universal Media Bay delivering optimal performance, capacity, and reliability to meet various customer workload requirements at the right economics.

You have a choice of embedded 4x1GbE, HP FlexibleLOM, PCIe standup 1GbE or 10GbE adapters which provides flexibility of networking bandwidth and fabric so you can adapt and grow to changing business needs.

Support for up 2x 1200W or 1500W HP Common Slot Power Supplies for maximum redundancy and reducing unnecessary downtime.

### Optimal Efficiencies for Scale-up Environments

The HP ProLiant DL560 Gen9 Server supports improved ambient temperature ASHRAE A3 and A4 3 standards helping to reduce your cooling expenses.

High efficiency HP Common Slot Power Supplies provide up to 94% efficiency (Platinum Plus), and support for HP Power Discovery Services.

Customer-inspired and easily accessible features include: new chassis design for ease of serviceability, hot pluggable fans and drives, optional SID for health and monitoring of components and Quick Reference code for quick access to product information.

Agile Infrastructure Management for Accelerating IT Service Delivery

With the HP ProLiant DL560 Gen9 Server, HP OneView provides infrastructure 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 Unified Extensible Firmware Interface (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 (Smart Update Manager) and SPP (Service Pack for ProLiant).

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#### Main specifications:

##### Processor

Processor frequency:	1.9 GHz
Processor family:	Intel Xeon E5 v3
Processor model:	E5-4640V3
Processor cores:	12
Number of processors installed:	1
Processor cache type:	L3
Processor cache:	30 MB
System bus rate:	8 GT/s
Processor socket:	LGA 2011 (Socket R)
Processor boost frequency:	2.6 GHz
Processor lithography:	22 nm
Processor threads:	24
Processor operating modes:	64-bit
Stepping:	C1
FSB Parity:	N
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Haswell
Tcase:	77.6 °C
Maximum internal memory supported by processor:	768 GB
Memory types supported by processor:	DDR4-SDRAM
Memory bandwidth supported by processor (max):	68 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:	1x4,1x8,1x16
Processor package size:	52.5 mm
Supported instruction sets:	AVX 2.0
Processor code:	SR22L
Scalability:	4S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	N

Thermal Design Power (TDP):	105 W
Processor series:	Intel Xeon E5-4600 v3
Conflict Free processor:	N
<b>Memory</b>	
Internal memory:	128 GB
Memory slots:	48
Memory clock speed:	2133 MHz
Memory layout (slots x size):	8 x 16 GB
<b>Networking</b>	
Ethernet LAN:	Y
<b>Ports &amp; interfaces</b>	
USB 2.0 ports quantity:	2
VGA (D-Sub) ports quantity:	1
Ethernet LAN (RJ-45) ports:	2
Serial ports quantity:	1
<b>Expansion slots</b>	
PCI Express slots version:	3.0
<b>Design</b>	
Chassis type:	Rack (2U)
Optical drive type:	N
<b>Processor special features</b>	
CPU configuration (max):	4
Intel Rapid Storage Technology:	N
Enhanced Intel SpeedStep Technology:	Y
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:	2.0
Intel® vPro® Technology:	N
Intel® Quick Sync Video Technology:	N
Intel® InTru® 3D Technology:	N
Intel® Clear Video HD Technology (Intel® CVT HD):	N
Intel® Insider® Technology:	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:	N
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 Instruction Replay 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:	85760
<b>Power</b>	
Power supply:	1200 W
<b>Weight &amp; dimensions</b>	
Width:	445.5 mm
Depth:	749.3 mm
Height:	87.3 mm
Weight:	27660 g

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