

# Hewlett Packard Enterprise ProLiant ML110 Gen9 server (838502-421)

Intel Xeon E5-2603 v4 (1.7GHz, 15MB), 8GB DDR4, 4 LFF HDD, Dynamic Smart Array B140i, 350W PS



## Price details:

Price excl. VAT: 835.58 €

Eco fees: 0.00 €

VAT 21 %: 175.47 €

## Product details:

Product code: 838502-421

EAN: 0889894405999

Manufacturer: Hewlett Packard Enterprise

**1,011.05 €**

\* VAT included

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Are you searching for an optimized and expandable server that is affordable for your small-to mid-sized business? The HP ProLiant ML110 Gen9 Server is a small, quiet tower with performance, expansion, and growth at an affordable investment to meet small and midsized businesses' compute demands. The ML110 Gen9 Server has a single processor and is a 4.5U tower, including up to five (5) PCIe slots with room to grow with up to eight (8) Large Form Factor (LFF) or sixteen (16) Small Form Factor (SFF) disk drives.

Also providing eight (8) DDR4 DIMM slots supporting HP DDR4 SmartMemory with a maximum capacity of 256GB, making this the ideal server for small-to mid-sized businesses and remote offices/branch offices.

## Features

### Right-sized, Delivering Better Performance at an Affordable Price

- The HP ProLiant ML110 Gen9 Server is compact with less than a 19-inch depth, quiet, affordable and delivers the performance needed for the compute demands of a growing office small-to mid-sized business.
- The ML110 Gen9 Server supports one Intel Xeon E5-2600 v3 or E5-1600 v3 processor with up to ten cores offering improved performance.
- Embedded SATA HP Dynamic Smart Array B140i Controller for boot and data.
- Optional HP Smart Array Controllers increase disk drive 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.

### Memory, HDD and I/O Expansion for Growing Business Needs

- The HP ProLiant ML110 Gen9 Server offers up to eight (8) DIMM slots with support for up to 256 GB of HP DDR4 SmartMemory, helping to prevent data loss and downtime with enhanced error handling while improving workload performance and power 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 eight (8) Large Form Factor LFF or sixteen (16) Small Form Factor (SFF) disk drives.
- For even higher performance disk drives you can install solid state storage options.
- Embedded with a 2x1GbE Adapter and up to five (5) PCIe slots, it provides you with the flexibility of networking bandwidth and fabric so you can adapt and grow to changing business needs.

### Optimized Compute for SMB Physical and Virtual Workloads and App

- The HP ProLiant ML110 Gen9 Server provides flexible expansion capacity with five (5) PCIe expansion slots, eight (8) USB ports, and a redundant power supply option.
- A single wide General Purpose Graphics Processing Unit (GPGPU) can boost performance in graphic and VDI applications for financial services, education, scientific research, and medical imaging applications.
- Improved ambient temperature standard with ASHRAE A3 reduces cooling expense.

### Agile Infrastructure Management with Essential Simplicity and Automation

- The HP ProLiant ML110 Gen9 Server offers essential management for control, provisioning, and optimization of HP ProLiant servers with HP Insight Control.

- 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 locally and remotely with the HP Intelligent Provisioning, HP Scripting Toolkits or HP RESTful Interface Tool.
  - Optimize firmware and driver updates and reduce downtime with HP Smart Update, consisting of HP Smart Update manager (SUM) and Service Pack for ProLiant (SPP) tools.
  - Embedded management to deploy, monitor and support your server remotely, out of band with HP Integrated-Lights out (iLO).
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#### Main specifications:

##### Processor

Processor frequency:	1.7 GHz
Processor family:	Intel Xeon E5 v4
Processor model:	E5-2603V4
Processor cores:	6
Number of processors installed:	1
Processor cache type:	Smart Cache
Processor cache:	15 MB
System bus rate:	6.4 GT/s
Processor socket:	LGA 2011-v3
Motherboard chipset:	Intel C610
Processor lithography:	14 nm
Processor threads:	6
Processor operating modes:	64-bit
Stepping:	R0
Bus type:	QPI
Number of QPI links:	2
Processor codename:	Broadwell
Tcase:	73 °C
Maximum internal memory supported by processor:	536 GB
Memory types supported by processor:	DDR4-SDRAM
Memory clock speeds supported by processor:	1600,1866 MHz
Memory bandwidth supported by processor (max):	59.7 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
Processor package size:	52.5 x 51 mm
Supported instruction sets:	AVX 2.0
Processor code:	SR2P0
Scalability:	2S
Physical Address Extension (PAE):	Y
Physical Address Extension (PAE):	46 bit
Embedded options available:	N
Thermal Design Power (TDP):	85 W
Processor series:	Intel Xeon E5-2600 v4
Conflict Free processor:	Y

##### Memory

Internal memory:	8 GB
Internal memory type:	DDR4-SDRAM
Maximum internal memory:	256 GB
Memory slots:	8 DIMM
Memory clock speed:	2400 MHz
ECC:	Y

##### Storage

Hard drive size:	3.5 "
Hard drive interface:	Serial ATA
RAID support:	Y
Maximum storage capacity:	64 TB
Hot-Plug support:	N

Number of hard drives supported:	4
<b>Networking</b>	
Ethernet LAN:	Y
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:	4
<b>Expansion slots</b>	
PCI Express slots version:	3.0
<b>Design</b>	
Chassis type:	Tower
Optical drive type:	N
<b>Performance</b>	
Operating system installed:	N
Compatible operating systems:	Microsoft Windows ServerCanonical UbuntuRed Hat Enterprise Linux (RHEL)SUSE Linux Enterprise Server (SLES)VMware
<b>Processor special features</b>	
CPU configuration (max):	2
Enhanced Intel SpeedStep Technology:	Y
Intel® Identity Protection Technology (Intel® IPT):	N
Intel Virtualization Technology for Directed I/O (VT-d):	Y
Intel® Hyper Threading Technology (Intel® HTT):	N
Intel® Turbo Boost Technology:	N
Intel® vPro® Technology:	Y
Intel Flex Memory Access:	N
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:	Y
Intel® OS Guard:	Y
Intel 64:	Y
Intel Virtualization Technology (VT-x):	Y
Processor ARK ID:	92993
<b>Power</b>	
Redundant power supply (RPS) support:	N
Power supply:	350 W
Number of main power supplies:	1
<b>Certificates</b>	
Energy Star certified:	N
<b>Weight &amp; dimensions</b>	
Width:	329.9 mm
Depth:	599.9 mm
Height:	564.9 mm
Weight:	1513 g
<b>Other features</b>	
Graphics adapter:	G200
Graphics adapter family:	Matrox

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