

HPE ProLiant DL160 Gen9

1U rack server, dual Intel Xeon E5-2600 v3/v4, 16 x DDR4, iLO 4

FORM FACTOR	SOCKETS	MEMORY	DRIVE BAYS	MANAGEMENT
1U rack	2 x LGA2011-3	16 x DDR4	4 or 8	iLO 4

Overview

Refurbished HPE ProLiant DL160 Gen9 1U rack servers, tested and stocked in Doha, with dual Intel Xeon E5-2600 v3 or v4 processors, 16 DDR4 DIMM slots and 4 or 8 front bays, delivered across Qatar within a day.

The DL160 Gen9 is HPE's value dual-socket 1U server of the Gen9 line, the equivalent of the Dell R430. It shares the DL360 Gen9's E5-2600 v3 and v4 platform and iLO 4, but with 16 memory slots instead of 24, a lower processor power ceiling, embedded networking instead of a FlexibleLOM slot, and a shallower, lighter chassis. In exchange it costs less and draws less power. For a branch office server, a domain controller, a small virtualisation host, a firewall or proxy appliance, or a second node for a small cluster, it is usually the right amount of server.

Chassis options

The DL160 Gen9 shipped in three front-bay layouts, including a non-hot-plug variant at the entry level. Choose by how many drives you need and whether they must be swappable without powering down.

CHASSIS	FRONT BAYS	DRIVE TYPES	TYPICAL USE
4 LFF non-hot-plug	4	SATA, SAS	Entry file server or domain controller; drives are not hot-swappable
4 LFF hot-plug	4	SAS, SATA	Bulk capacity, backup targets
8 SFF hot-plug	8	SAS, SATA, SSD	General virtualisation and application hosts

Processors

The DL160 Gen9 takes Intel Xeon E5-2600 v3 and v4 processors in two LGA2011-3 sockets, with a power ceiling of 105 W, which excludes the high-core-count 120 W and above parts. v4 CPUs need System ROM U20 v2.00 or later. Both CPUs in a system must be identical.

Xeon E5-2600 v3 and v4 within the power ceiling

PROCESSOR	CORES	BASE CLOCK	TDP	MEMORY SPEED
Xeon E5-2620 v4	8	2.1 GHz	85 W	2133 MT/s
Xeon E5-2630 v4	10	2.2 GHz	85 W	2133 MT/s
Xeon E5-2640 v4	10	2.4 GHz	90 W	2133 MT/s
Xeon E5-2650 v4	12	2.2 GHz	105 W	2400 MT/s
Xeon E5-2660 v4	14	2.0 GHz	105 W	2400 MT/s
Xeon E5-2620 v3	6	2.4 GHz	85 W	1866 MT/s
Xeon E5-2630 v3	8	2.4 GHz	85 W	1866 MT/s
Xeon E5-2640 v3	8	2.6 GHz	90 W	1866 MT/s
Xeon E5-2650 v3	10	2.3 GHz	105 W	2133 MT/s
Xeon E5-2660 v3	10	2.6 GHz	105 W	2133 MT/s

Memory

Sixteen DDR4 DIMM slots, eight per processor across four channels. HPE SmartMemory registered (RDIMM) and load-reduced (LRDIMM) modules are supported; they cannot be mixed in the same system. With one CPU installed, only the eight slots on that side are usable.

MODULE	CAPACITIES	MAXIMUM SYSTEM MEMORY
RDIMM	8 GB, 16 GB, 32 GB	512 GB with 16 x 32 GB
LRDIMM	32 GB, 64 GB	1 TB with 16 x 64 GB

Populate all four channels per CPU in matched sets: 8 or 16 DIMMs in total for a dual-CPU system. Memory runs at the lower of the DIMM rating and the CPU limit.

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Storage and RAID

The controller options are:

CONTROLLER	TYPE	CACHE	RAID LEVELS	NOTES
Dynamic Smart Array B140i	Software RAID (SATA)	None	0, 1, 5, 10	Onboard; SATA only, adequate for boot mirrors
Smart HBA H240	Pass-through HBA	None	0, 1, 5 (simple)	PCIe card; direct disk access for ZFS and Storage Spaces
Smart Array P440	Hardware RAID	4 GB FBWC	0, 1, 5, 6, 10, 50, 60	PCIe card; the common choice for virtualisation hosts

Supported drive types are 12 Gb/s SAS and 6 Gb/s SATA in hard disk and SSD form; there is no NVMe support in the bays. Hot-plug units need HPE Gen8 or Gen9 Smart Carriers; the non-hot-plug chassis uses screw-in trays.

Networking and expansion

Onboard networking is an embedded HPE 361i dual-port 1 GbE adapter. There is no FlexibleLOM slot, so faster networking goes into one of up to three PCIe Gen3 slots (one full-height x16, one low-profile x8, and a third x16 with the second CPU fitted). With one slot typically taken by the Smart Array card, a 10 GbE adapter fills the second.

Power supplies

Entry configurations shipped with a single fixed 550 W power supply; hot-plug redundant 800 W Flex Slot units were offered on higher configurations. Check the listing for which one a unit carries.

Management

Every DL160 Gen9 includes iLO 4 with a dedicated management port. iLO Standard covers remote power, health monitoring and basic alerts; iLO Advanced adds the virtual console, virtual media and remote firmware updates. On current firmware the HTML5 console works in any modern browser without plugins, and a basic Redfish API is available. Advanced licences can be added to any unit, and Intelligent Provisioning handles bare-metal OS installs.

Physical specification

Form factor	1U rack, 2 socket
Height	43 mm (1U)
Width	434.6 mm
Depth	Approximately 630 mm without bezel
Weight	Up to approximately 15 kg fully configured
Rails	HPE Easy Install rails
Operating temperature	10 to 35 °C continuous

Supported operating systems

Windows Server 2012 R2, 2016 and 2019; Red Hat Enterprise Linux 6, 7 and 8; SUSE Linux Enterprise Server 12; Ubuntu Server LTS releases; VMware ESXi 6.0, 6.5, 6.7 and 7.0; and Proxmox VE. Windows Server 2022 and ESXi 8.0 run on this platform but are not on HPE's support matrix for it. Confirm your hypervisor's hardware compatibility list before buying if you need vendor support.