

HPE DL325 G10 VS Servers of Super Micro, Dell and Sugon

Server Model		HPE ProLiant DL325 Gen10 Server	Supermicro AS-Server 1013S-MTR Server	Dell PowerEdge R6415 Rack Server
Advantages of Dell Servers		<ol style="list-style-type: none"> 1. The array card supports 8GB cache 2. There is no LCD display; 3. DELL's consistency security feature based on Root Trust technology requires no additional charge, HPE corresponding technology has low maturity and additional charges are required for authorization. 	<ol style="list-style-type: none"> 1. DELL uses LSI's latest 3508 chip array card, which supports up to 8GB Cache, Supermicro uses 3008 is the previous generation array card chip; 2. DELL supports dual SD cards, which is convenient for users to deploy virtualized environments, which is not provided by Supermicro; 3. The M.2 system boot disk provided by DELL is a more mainstream technical standard than the old SATA DOM electronic disk; 4. R6415 provides SFF chassis, supports up to 10SFF, can support 10 NVME, Supermicro does not provide SFF chassis, only supports 4LFF configuration, including 1NVME with M.2 interface; 5. DELL iDRAC9.0 is an advanced server management system with full life cycle security, Supermicro only supports the most basic management functions; 6. 16DIMM vs 8DIMM 	<ol style="list-style-type: none"> 1. Supports front hot-swappable NVMe PCIe 2.5 "SSD; 2. Dell 14th generation server platform is an efficient and automated server management platform with server life cycle management; 3. Dell 14th generation server consistent security features, Root Trust; 4 . The performance of one CPU is worse than the performance of traditional Intel 2 CPUs, saving one CPU license.
Disadvantages of Dell Servers			Ultrafine models offer up to 9 USB ports	
CPU	Model	Up to 1 AMD EPYC 7000 series processor	1x AMD EPYC CPU	1 x AMD EPYC CPU
	CPU model	32 Core, 24 Core, 16 Core or 8 Core	32 Core/200W	32 Core/180W

Server Model		HPE ProLiant DL325 Gen10 Server	Supermicro AS-Server 1013S-MTR Server	Dell PowerEdge R6415 Rack Server
Chipset		Embedded CPU		
RAM	Model	DDR4 SmartMemory, single maximum 128G	4GB, 8GB, 16GB, 32GB, 64GB, 128GB, Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM; 8-channel memory bus;	8GB/16GB/32GB/64GB/128GB DDR4
	Total Capacity	16 RDIMM slots	8 DIMM slots	16 DIMM RDIMM, LRDIMM
Storage controller	Model	1 HPE Smart Array P408i-a and / or 1 HPE Smart Array P816i-a and / or 1 HPE Smart Array E208i-a	Unknown, presumably same as 2U model	S140/H330/H730p/H740p/H840
	Cache size / maximum	4GB	Unknown, presumably same as 2U model	8GB
	Cache protection type	FBWC	Unknown, presumably same as 2U model	
	Battery or capacitor	System level lithium battery	Unknown, presumably same as 2U model	Battery
	Main technical characteristics	Array card based on PMC chip	Unknown, presumably same as 2U model	LSI 3508 (H840)
SD card	Number of SD cards	1	N/A	2
	SD card capacity	8GB, 32GB	N/A	64GB
	SD cards can form RAID levels	N/A	N/A	1
M.2	M.2 quantity	N/A	No, but there are two SATA DOM interfaces	2
	M. 2 single chip capacity	N/A		240GB
	M.2 RAID levels	N/A		1

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Network card	Sub-Card (NDC Card Type)	HPE 1 Gb 331i Ethernet adapter, 4 ports per controller and / or optional FlexibleLOM	2x 1GbE LAN ports	LOM1: 2x1G BCM5720 Modular LOM in OCP form factor (BCM 5720L/BCM57416; 2x1Gb BASE-T/2X10Gb BASE-T/2x10Gb SFP+)
	PCIe (occupies a standard slot)		N/A	OCP slot
GPU	GPU Max Supported Blocks	N/A	N/A	N/A
	GPU model	N/A	N/A	N/A
FPGA	FPGA Maximum Supported Blocks	N/A	N/A	N/A
	FPGA model	N/A	N/A	N/A
Hard drive backplane	Type (including the maximum number of supported hard disks)	4 LFF SAS / SATA / Solid State Drives, 8 SFF SAS / SATA / Solid State Drives (with optional 2 SFF SAS / SATA / Solid State Drives or 2 SFF NVMe), 8 SFF NVMe (with optional 2 SFF NVMe or 2 SFF SAS / SATA / Solid State Drives), depending on model	4 SATA3 (6 Gbps) ports	4 x 3.5"; 8 x 2.5"; 10 x 2.5" up to 10 x 2.5" NVMe
	Whether to support hard disk hot swap	Yes		Yes

Server Model		HPE ProLiant DL325 Gen10 Server	Supermicro AS-Server 1013S-MTR Server	Dell PowerEdge R6415 Rack Server
Hard disk configuration	Model and quantity	12Gb/s SAS; 6Gb/s SATA; 3.5" SATA 7200 RPM 3.5" NL-SAS 7200 RPM 2.5" SATA 7200 2.5" SAS 10000RPM 2.5" SAS 15000RPM 2.5" NVMe PCIe SSD	Supports 4 SATA3 3.5" HDD	12Gb/s SAS; 6Gb/s SATA; 3.5" SATA 7200 RPM 3.5" NL-SAS 7200 RPM 2.5" SATA 7200 2.5" SAS 10000RPM 2.5" SAS 15000RPM 2.5" NVMe PCIe SSD
Chassis	Dimensions (cm)	1U, 4.29 x 43.46 x 61.49 cm	43mm x 437mm x503 mm	1U; chassis depth: 606.5 mm; case width: 434mm
	Ventilation method	Air-cooled		Air-cooled
Temperature	Equipment operating temperature range (°C)	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C
	Equipment working humidity range	8-90%	8% to 90%	10% to 80%
Hot-swappable power supplies	Nominal power of single power supply (W)	500w non-hot swap, hot swap / 800w hot swap / 1600w hot swap	400W	AC- 495W;750W, 1100W, 1600 HVDC 240V - 750W HVDC 336V - 1100W
	Quantity	2		2
	Dual power mode	Redundancy		Redundancy
	Input method	AC, HVDC		AC, HVDC
PCI-E (I/O)	Quantity	3 PCIe 3.0	1	3

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USB port	Quantity	4 total: 1 front, 2 rear, 1 internal (secure)	5 USB 3.0 ports (2 rear + 2 via header + 1 Type A); 4 USB 2.0 ports (2 rear, 2 via header);	2 front 2 rear 1 internal
Out-of-band management	Yes or No	Yes		Yes
	The main function	IPMI 2.0 Redfish iLO5	Support for Intelligent Platform Management Interface v.2.0; IPMI 2.0 with virtual media over LAN and KVM-over-LAN support; ASPEED AST2500 BMC;	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module
Energy management	Yes or No	Yes		Yes
System cooling fan		5 fans, 7 fans for NVMe models		Air baffle, vector heat dissipation
LCD display		N/A		Optional
Host front panel with keyhole and key		Yes		Yes
Other		HPE iLO Standard with Smart Configuration (Embedded), HPE OneView Standard (standard), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (optional)		Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase; OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool/OMNIBus, IBM Tivoli® Network Manager, CA Network and Systems Management

Server Model	HPE ProLiant DL325 Gen10 Server	Supermicro AS -2013S-C0R Server	Dell PowerEdge R7415 Rack Server	Sugon A320-G30 Server
Advantages of Dell Servers	<p>1. The array card supports 8GB cache</p> <p>2. There is no LCD display;</p> <p>3. DELL's consistency security feature based on Root Trust technology requires no extra charge, HPE corresponding technology has low maturity and additional charges are required for authorization.</p>	<p>1. DELL uses LSI's latest 3508 chip array card, which supports up to 8GB Cache, Supermicro uses 3008 is the previous generation array card chip;</p> <p>2. DELL supports dual SD cards, which is convenient for users to deploy virtualized environments, which is not provided by Supermicro;</p> <p>3. The M.2 system boot disk provided by DELL is a more mainstream technical standard than the old SATA DOM electronic disk;</p> <p>4. R7415 provides SFF chassis, supporting up to 24SFF configuration, Supermicro does not provide SFF chassis, only supports 8LFF configuration, including NVME with M.2 interface;</p> <p>5. DELL iDRAC9.0 is an advanced server management system with full life cycle security, Supermicro only supports the most basic management functions;</p> <p>6. 16DIMM vs. 8DIMM</p>	<p>1. Supports front hot-swappable NVMe PCIe 2.5 "SSD;</p> <p>2. Dell 14th generation server platform is an efficient and automated server management platform with server life cycle management;</p> <p>3. Dell 14th generation server consistent security features, Root Trust;</p> <p>4 . The performance of one CPU is worse than the performance of traditional Intel 2 CPUs, saving one CPU license.</p>	
Disadvantages of Dell Servers				<p>1. Dawn's AMD platform has a large install base and has a</p>

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					long-term cooperative relationship with AMD
CPU	Model	Up to 1 AMD EPYC 7000 series processor	Single AMD EPYC™ 7000-Series Processor	1 x AMD EPYC CPU	Supports 1 * AMD EPYC series multi-core processors (maximum 32 Cores), large-capacity three-level cache (32 / 64MB, depending on the CPU model)
	CPU model	32 Core, 24 Core, 16 Core or 8 Core	32 Core / 200W	32 Core/180W	7601 (32 Core / 64 threads, 2.2GHz, maximum 3.2GHz frequency increase)
Chipset		CPU embedded	CPU embedded	CPU embedded	CPU embedded
RAM	Model	DDR4 SmartMemory, single maximum 128G	4GB, 8GB, 16GB, 32GB, 64GB, 128GB Supports up to 1TB Registered ECC DDR4 2666MHz SDRAM 8-channel memory bus	8GB/16GB/32GB/64GB/128GB DDR4	DDR4 2666 frequency, RDIMM, LRDIMM, NVDIMM
	Total Capacity	16 RDIMM slots	8 DIMM slots	16 DIMM RDIMM, LRDIMM	16 slots, 2TB memory
Storage controller	Model	1 HPE Smart Array P408i-a and / or 1 HPE Smart Array P816i-a and / or 1 HPE Smart Array E208i-a	Broadcom 3008 SAS3 (12 Gbps) controller IR mode; RAID 0, 1, 10	S140/H330/H730p/H740p/H840	Onboard 24-port SATA controller, can support 7 U.2 NVME SSDs directly connected
	Cache size / maximum	4GB		8GB	
	Cache protection type	FBWC			
	Battery or	System level lithium battery		Battery	

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	capacitor				
	Main technical characteristics	Array card based on PMC chip		LSI 3508 (H840)	
SD card	Number of SD cards	1	N/A	2	
	SD card capacity	8GB, 32GB		64GB	
	SD cards can form RAID levels	NA		1	
M.2	M.2 quantity	NA	No, but there are two SATA DOM interfaces	2	
	M. 2 single chip capacity	NA		240GB	
	M.2 RAID levels	NA		1	
Network card	Sub-Card (NDC Card Type)	HPE 1 Gb 331i Ethernet adapter, 4 ports per controller and / or optional FlexibleLOM	2x 1GbE LAN ports	LOM1: 2x1G BCM5720 Modular LOM in OCP form factor (BCM 5720L/BCM57416; 2x1Gb BASE-T/2X10Gb BASE-T/2x10Gb SFP+)	Optional support for multiple dual-port 1G / 10G / RJ45 / SFP +, 25G and other networks
	PCIe (occupies a standard slot)			OCP slot	
GPU	GPU Max Supported	NA	Not support	NA	

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	Blocks				
	GPU model	NA	Not support	NA	
FPGA	FPGA Maximum Supported Blocks	NA	Not support	NA	
	FPGA model	NA	Not support	NA	
Hard drive backplane	Type (including the maximum number of supported hard disks)	4 LFF SAS / SATA / Solid State Drives, 8 SFF SAS / SATA / Solid State Drives (with optional 2 SFF SAS / SATA / Solid State Drives or 2 SFF NVMe), 8 SFF NVMe (with optional 2 SFF NVMe or 2 SFF SAS / SATA / Solid State Drives), depending on model	8 hot-swap 3.5" SAS3/SATA3 Drive Bays (on-board Broadcom 3008 IR mode), 1 M.2 NVMe SSD slot Supported	8 x 3.5"; 12 x 3.5"; 12 x 3.5" + 2 x 3.5"; 24 x 2.5"; 24 x 2.5" up to 12 x 2.5" NVMe	
	Whether to support hard disk hot swap	Yes	Yes	Yes	
Hard disk configuration	Model and quantity	12Gb/s SAS; 6Gb/s SATA; 3.5" SATA 7200 RPM 3.5" NL-SAS 7200 RPM 2.5" SATA 7200 2.5" SAS 10000RPM 2.5" SAS 15000RPM 2.5" NVMe PCIe SSD	SATA3 (6 Gbps)	12Gb/s SAS; 6Gb/s SATA; 3.5" SATA 7200 RPM 3.5" NL-SAS 7200 RPM 2.5" SATA 7200 2.5" SAS 10000RPM 2.5" SAS 15000RPM 2.5" NVMe PCIe SSD	
Chassis	Dimensions (cm)	1U, 4.29 x 43.46 x 61.49 cm	89mm x 437mm x 647 mm	2U; case depth: 647 mm; case width: 434mm	
	Ventilation	Air-cooled		Air-cooled	

Server Model		HPE ProLiant DL325 Gen10 Server	Supermicro AS -2013S-C0R Server	Dell PowerEdge R7415 Rack Server	Sugon A320-G30 Server
	method				
Temperature	Equipment operating temperature range (°C)	10 °C to 35 °C	10 °C to 35 °C	10 °C to 35 °C	
	Equipment working humidity range	8-90%	8% to 90%	10% to 80%	
Hot-swappable power supplies	Nominal power of single power supply (W)	500w non-hot swap, hot swap / 800w hot swap / 1600w hot swap	740W	AC- 495W;750W, 1100W, 1600 HVDC 240V - 750W HVDC 336V - 1100W	550W / 1200W GRPS High Efficiency Platinum / Titanium Power Supply
	Quantity	2		2	1+1
	Dual power mode	Redundancy		Redundancy	
	Input method	AC, HVDC		AC, HVDC	
PCI-E (I/O)	Quantity	3 PCIe 3.0	3 PCI-E 3.0 x16 (low profile) 3 PCI-E 3.0 x8 (low profile)	6	6 PCIe 3.0
USB port	Quantity	4 total: 1 front, 2 rear, 1 internal (secure)	3 USB 3.0 ports 2 USB 2.0 ports	2 front 2 rear 1 internal	
Out-of-band management	Yes or No	Yes		Yes	
	The main function	IPMI 2.0 Redfish iLO5	1 RJ45 Dedicated IPMI LAN port Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	IPMI 2.0 Compliant iDRAC9 (Express Edition, Enterprise Edition) with Lifecycle Controller Optional Quick Sync 2 Wireless Module	

Server Model		HPE ProLiant DL325 Gen10 Server	Supermicro AS -2013S-C0R Server	Dell PowerEdge R7415 Rack Server	Sugon A320-G30 Server
			ASPEED AST2500 BMC		
Energy management	Yes or No	Yes		Yes	
System cooling fan		5 fans, 7 fans for NVMe models		Air baffle, vector heat dissipation	
LCD display		NA		Optional	
Host front panel with keyhole and key		Yes		Yes	
Other		HPE iLO Standard with Smart Configuration (Embedded), HPE OneView Standard (standard), HPE iLO Advanced, HPE iLO Advanced Premium Security Edition, and HPE OneView Advanced (optional)		Cryptographically signed firmware; Hardware Root of Trust; Secure Boot; System Lockdown; System Erase; OpenManage connections: Nagios & Nagios XI, Oracle Enterprise Manager, HP Operations Manager, IBM Tivoli Netcool/OMNibus, IBM Tivoli® Network Manager, CA Network and Systems Management	Innovative design, embedded dedicated security processor in SoC chip. Can achieve OS secure boot, memory encryption and virtualization security. The encryption key is permanently stored in the security processor to completely prevent the threat of intrusion attacks and ensure the security of user information.

Related Sources

Learn More about the server comparisons of HPE and competitors:

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[HPE DL385 G10 VS Servers of Super Micro, H3C, Dell and Sugon](#)

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