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| **HPE ProLiant DL380 Gen9 Server**  Product description   |  |  | | --- | --- | | https://support.hpe.com/hpsc/doc/public/imageServlet?DOCID=emr_na-c04438844-11/c04444813.gif | The HPE ProLiant DL380 Gen9 Server delivers the best performance and expandability in the HPE 2P rack portfolio. Reliability, serviceability and near continuous availability, backed by a comprehensive warranty, make it ideal for any environment. HPE ProLiant DL380 Gen9 Server supports industry standard Intel Xeon E5-2600 v3 and E5-2600 v4 processors with up to 22 cores, 12G SAS and 3.0 5TB of HPE DDR4 Smart Memory. |   Product features   | Feature | Description | | --- | --- | | Processor (Up to two of the following depending on model) | | Model | CPU frequency | Cores | L3 Cache | Power | QPI | DDR4 Hz | | --- | --- | --- | --- | --- | --- | --- | | E5-2699v3 | 2.3 GHz | 18 | 45MB | 145 W | 9.6 GT/s | 2133 | | E5-2698v3 | 2.3 GHz | 16 | 40MB | 135 W | 9.6 GT/s | 2133 | | E5-2697v3 | 2.6 GHz | 14 | 35MB | 145 W | 9.6 GT/s | 2133 | | E5-2695v3 | 2.3 GHz | 14 | 35MB | 120 W | 9.6 GT/s | 2133 | | E5-2690v3 | 2.6 GHz | 12 | 30MB | 135 W | 9.6 GT/s | 2133 | | E5-2687Wv3 | 3.1 GHz | 10 | 25MB | 160 W | 9.6 GT/s | 2133 | | E5-2683v3 | 2.0 GHz | 14 | 35MB | 120 W | 9.6 GT/s | 2133 | | E5-2680v3 | 2.5 GHz | 12 | 30MB | 120 W | 9.6 GT/s | 2133 | | E5-2670v3 | 2.3 GHz | 12 | 30MB | 120 W | 9.6 GT/s | 2133 | | E5-2667v3 | 3.2 GHz | 8 | 20MB | 135 W | 9.6 GT/s | 2133 | | E5-2660v3 | 2.6 GHz | 10 | 25MB | 105 W | 9.6 GT/s | 2133 | | E5-2650v3 | 2.3 GHz | 10 | 25MB | 105 W | 9.6 GT/s | 2133 | | E5-2650Lv3 | 1.8 GHz | 12 | 30MB | 65 W | 9.6 GT/s | 2133 | | E5-2643v3 | 3.4 GHz | 6 | 20MB | 135 W | 9.6 GT/s | 2133 | | E5-2640v3 | 2.6 GHz | 8 | 20MB | 90 W | 8.0 GT/s | 1866 | | E5-2637v3 | 3.5 GHz | 4 | 15MB | 135 W | 9.6 GT/s | 2133 | | E5-2630v3 | 2.4 GHz | 8 | 20MB | 85 W | 8.0 GT/s | 1866 | | E5-2630Lv3 | 1.8 GHz | 8 | 20MB | 55 W | 8.0 GT/s | 1866 | | E5-2623v3 | 3.0 GHz | 4 | 10MB | 105 W | 8.0 GT/s | 1866 | | E5-2620v3 | 2.4 GHz | 6 | 15MB | 85 W | 8.0 GT/s | 1866 | | E5-2609v3 | 1.9 GHz | 6 | 15MB | 85 W | 8.0 GT/s | 1600 | | E5-2603v3 | 1.6 GHz | 6 | 15MB | 85 W | 6.4 GT/s | 1600 | | E5-2699v4 | 2.2 GHz | 22 | 55MB | 145 W | 9.6 GT/s | 2400 | | E5-2698v4 | 2.2 GHz | 20 | 50MB | 135 W | 9.6 GT/s | 2400 | | E5-2697v4 | 2.3 GHz | 18 | 45MB | 145 W | 9.6 GT/s | 2400 | | E5-2697Av4 | 2.6 GHz | 16 | 40MB | 145 W | 9.6 GT/s | 2400 | | E5-2695v4 | 2.1 GHz | 18 | 45MB | 120 W | 9.6 GT/s | 2400 | | E5-2690v4 | 2.6 GHz | 14 | 35MB | 135 W | 9.6 GT/s | 2400 | | E5-2687Wv4 | 3.0 GHz | 12 | 30MB | 160 W | 9.6 GT/s | 2400 | | E5-2683v4 | 2.1 GHz | 16 | 40MB | 120 W | 9.6 GT/s | 2400 | | E5-2680v4 | 2.4 GHz | 14 | 35MB | 120 W | 9.6 GT/s | 2400 | | E5-2667v4 | 3.2 GHz | 8 | 25MB | 135 W | 9.6 GT/s | 2400 | | E5-2660v4 | 2.0 GHz | 14 | 35MB | 105 W | 9.6 GT/s | 2400 | | E5-2650v4 | 2.2 GHz | 12 | 30MB | 105 W | 9.6 GT/s | 2400 | | E5-2650Lv4 | 1.7 GHz | 14 | 35MB | 65 W | 9.6 GT/s | 2400 | | E5-2643v4 | 3.4 GHz | 6 | 20MB | 135 W | 9.6 GT/s | 2400 | | E5-2640v4 | 2.4 GHz | 10 | 25MB | 90 W | 8.0 GT/s | 2133 | | E5-2637v4 | 3.5 GHz | 4 | 15MB | 135 W | 9.6 GT/s | 2400 | | E5-2630v4 | 2.2 GHz | 10 | 25MB | 85 W | 8.0 GT/s | 2133 | | E5-2630Lv4 | 1.8 GHz | 10 | 25MB | 55 W | 8.0 GT/s | 2133 | | E5-2623v4 | 2.6 GHz | 4 | 10MB | 85 W | 8.0 GT/s | 2133 | | E5-2620v4 | 2.1 GHz | 8 | 20MB | 85 W | 8.0 GT/s | 2133 | | E5-2609v4 | 1.7 GHz | 8 | 20MB | 85 W | 6.4 GT/s | 1866 | | E5-2603v4 | 1.7 GHz | 6 | 15MB | 85 W | 6.4 GT/s | 1866 |   NOTE:   * All processors above 120 W use a high efficiency Heatsink. Doublewide PCIe cards are only supported with this Heatsink. For processors with a standard Heatsink that require double wide PCIe cards, the Graphics Enablement kit option is also required (719082-B21) * Mixing of E5-2600v3 and E5-2600v4 processors is not supported * Field upgrade from E5-2600v3 to E5-2600v4 is supported | | Chipset | * Intel C610 Series Chipset * Intel E5-2600v3 Processor Family * Intel E5-2600v4 Processor Family | | On system management chipset | HPE iLO (Firmware HPE iLO4 2.0) 4GB NAND  [Click here to view HPE Integrated Lights-Out (iLO) QuickSpecs for more details](https://www.hpe.com/h20195/v2/GetDocument.aspx?docname=c04346247) . | | Memory | |  |  | | --- | --- | | Type | HPE SmartMemory DDR4 Registered (RDIMM) or Load Reduced (LRDIMM) or Persistent Memory (NVDIMM) | | DIMM Slots Available | 24 (12 DIMM slots per processor, 4 channels per processor, 3 DIMMs per channel) | | Maximum Capacity (LRDIMM) | 3TB (24 x 128GB LRDIMM at 2400 MHz) | | Maximum Capacity (RDIMM) | 768GB (24 x 32GB RDIMM at 2400 MHz) | | Maximum Capacity (NVDIMM) | 128GB (16 x 8GB NVDIMM) |   NOTE:   * NVDIMM will be shipping later in 2016 * NVDIMM support only with the E5-2600v4 processors * Mixing of 2133 and 2400MHz memory is not supported * Mixing of RDIMM and LRDIMM memory is not supported * 128GB LRDIMM may not be mixed with other DIMM capacities/types | | Memory protection | * Advanced ECC * Memory Online Spare Mode (Rank Spare Mode) | | Expansion slots(Primary Riser (Standard)) | | Expansio n Slots # | Technology | Bus Width | Connector Width | Bus Number | Form Factor | | --- | --- | --- | --- | --- | --- | | Primary Riser (Standard) | | | | | | | 1 | PCIe 3.0 | x8 | x16 | 7 | Full-height, half length slot | | 2 | PCIe 3.0 | x8 | x16 | 10 | Full-height, half length slot | | 3 | PCIe 3.0 | x8 | x8 | 13 | Full-height, half length slot | | Slot 2 PCIe Riser (Optional 3-slot) 719073-B21 | | | | | | | 4 | PCIe 3.0 | x16 | x16 | 16 | Full-height, full-length slot | | 5 | PCIe 3.0 | x16 | x16 | 20 | Full-height, full-length slot | | 6 | PCIe 3.0 | x8 | x8 | 23 | Full-height, half-length slot | | Slot 1 PCIe Riser (Optional 2-slot) 719076-B21 | | | | | | | 2 | PCIe 3.0 | x16 | x16 | 0x05 | Full-height, full-length slot | | 3 | PCIe 3.0 | x8 | x8 | 0x08 | Full-height, half-length slot |   NOTE:   * Bus Width Indicates the number of physical electrical lanes running to the connector * This will replace the standard primary riser and supports double wide cards * All slots support PCIe cards to 150W or more depending on card, but an additional Power Cord Option is required (PN 669777-B21). See Option Section below for offering * Double wide PCIe cards are only supported in risers with the Processors leveraging the High Performance Heatsink. For Processors requiring double wide GPU support please order the GPU enablement kit (719082-B21) | | Storage controller(One of the following depending on model) | |  |  | | --- | --- | | Entry models | HPE Dynamic Smart Array B140i Controller | | Base models | * HPE Dynamic Smart Array B140i Controller * HPE Flexible Smart Array P440ar/2G FIO Controller * HPE Flexible Smart Array P840/4G FIO Controller * HPE Flexible Smart Array P840ar/4G FIO Controller | | Performance models | * HPE Dynamic Smart Array B140i Controller * HEP Flexible Smart Array P440ar/2GB |   NOTE:   * The embedded B140i controller will operate in UEFI only mode. For legacy support an additional controller will be needed, and for CTO orders please also select the Legacy mode settings part, 758959-B22 * The B140i defaults to AHCI off the chipset. Smart array needs to be enables on the SATA only models if required * The B140i will not operate in Legacy mode | | Internal storage devices(One of the following depending on model) | |  |  | | --- | --- | | Optical drive | Ships standard in Performance Models  Optional: DVD-ROM, DVD-RW | | Hard drives | None ship standard | | Hard drive bays | * 8 SFF with optional Universal Media bay or 8SFF bay options * 24 SFF plus optional 2 SFF drives rear * 12 LFF plus optional 3 LFF drives rear * 4 LFF drive bays total |   NOTE:   * The 3 LFF rear drives will consume space for the secondary riser * The 12 LFF chassis also supports 2 SFF rear which allows for the second riser * The 6 NVMe drive option can only be leveraged in the SFF chassis and replaces Bay 2 * The Universal Media Bay (724865-B21) not available with the LFF chassis or the 24SFF front end, and can only be populated in Bay1 * The 8SFF can be upgraded with a drive cage to 16 or 24 SFF with field upgrades. For optimal upgrade Bay2 should be populated second, with Bay 13 the last to be populated for a field upgrade to 24 SFF * The 4LFF chassis cannot be upgraded to 12LFF in the field * All Pre-configured Chassis come with an embedded 10-Port SATA controller. Optional HPE Flexible Smart Array and Smart SAS HBA Controllers can be added | | Maximum internal storage | |  |  |  | | --- | --- | --- | | Hot Plug SFF SAS | 52.0TB | 24+2 x 1.2TB (with optional rear SFF drive cage) | | Hot Plug SFF SATA | 52.0TB | 24+2 x 1TB (with optional SFF drive cage) | | Hot Plug LFF SAS | 120.0TB | 12+3 x 8TB (with optional rear LFF drive cage) | | Hot Plug LFF SATA | 120.0TB | 12+3 x 8TB (with optional rear LFF drive cage) | | Hot Plug SFF SAS SSD | 99.84TB | 24+2 x 3.84TB (with optional rear SFF drive cage) | | Hot Plug LFF SATA SSD | 57.6TB | 12+3 x 3.84TB (with optional rear LFF drive cage) | | Hot Plug SFF NVMe SSD | 12TB NVMe + 36TB SFF | 6 x 2TB NVMe plus 36TB with 18 SFF (Bay 1, bay 3 and optional rear drive support) | | | Power supply | * HPE 500 W Flex Slot Platinum Hot Plug Power Supply * HPE 800 W Flex Slot Platinum Hot Plug Power Supply1 * HPE 1400 W Flex Slot Platinum Plus Hot Plug Power Supply * HPE Flexible slot battery backup unit kits2   NOTE: Available in 94% efficiency   1. Also available in -48VDC and 227VAC/380VDC power inputs 2. Flex Slot Battery Backup provides 750W output and 500W in paralleled configuration   To review the power requirements for your selected system, please use the HPE Power Advisor Tool | | System fans(One of the following depending on model) | | Non-redundant | Redundant | | --- | --- | | 2P model | 6 fans |   NOTE:   * 1P models typically ship with 4 standard fans. The second processor option kit contains 2 additional fans * The 12LFF and 24SFF chassis ship with 6 High Performance fans as standard * High Performance Fan Kit is available to meet ambient temperature environments * High Performance Fan Kit is required for Passive GPU support * The 8SFF Bay1 kit (719067-B21) will ship with 6 High efficiency fans | | Interfaces | |  |  | | --- | --- | | Serial | optional | | Video | 2 (1 front, optional via Universal Media Bay), 1 rear not active simultaneously | | FlexibleLOM Network ports | 4 x 1Gb ports shipping standard with optional FlexibleLOM | | HP iLO Remote Management Network port | 1 Gb Dedicated | | Micro SD Slot | 1 Micro SD | | USB 3.0 | Up to 5 total: 1 front, 2 rear, 2 internal (secure), 2 optional USB 2.0 front via Universal Media Bay | | SID (Systems Insight Display) | Optional |   NOTE:   * The Micro SD slot is not a hot-pluggable device. Customers should not attempt to plug an SD card into the SD slot while the server is powered * Not shipping as standard. Available as a CTO option or as a field upgrade (768900-B21) | | Upgradeability | * Upgradeable to two (2) processors (36 Cores) * Up to 24 DIMM slots available for higher Memory capacity * FlexibleLOM connector for 1 Gigabit or 10 Gigabit networking options * HPE Flexible Smart Array or Smart HBA Controllers * Embedded 10-Port SATA, B140i as standard * Optional 3 slot riser (x16, x16, x8), or 2 slot (x16, x8) * Redundant power supply * Optical drive supported via Universal Media Bay * HPE Legacy Mode (FIO only, 758959-B22)   NOTE:   * To take advantage of the additional 3 PCI slot upgrade, the second processor must be installed * The Universal Media bay provides front VGA and 2xUSB 2.0, plus ability to add 2SFF and Optical * Universal Media bay is only available with 8 or 8+8SFF chassis & can be populated in Bay1 only * UEFI is the default mode for CTO and BTO SKUs. Can change default to legacy via CTO | | Industry standard compliance | * ACPI 2.0b Compliant * USB 3.0 Support * USB 2.0 Support * Microsoft Logo certifications * PCIe 3.0 Compliant * WOL Support * PXE Support * Energy Star * ASHRAE A3/A4 * UEFI (Unified Extensible Firmware Interface Forum   NOTE:   * The DL380 Gen9 is now one of the first HPE ProLiant Gen9 Servers with Extended Ambient Support up to 45 C for data center infrastructures designed for better energy efficiency such as but not limited to fresh air cooling * UEFI (Unified Extensible Firmware Interface Forum) is the default for the DL380 Gen9. Legacy model can be selected in the field or as a CTO option (758959-B22).   [Cick here to access Hewlett Packard Enterprise Information Library for additional technical thermal details regarding ambient temperatures, humidity and features support](http://h17007.www1.hpe.com/us/en/enterprise/servers/solutions/info-library/index.aspx?cat=extended_ambient_operating_support#.WBMoHE2a2M8) . | | Graphics | Integrated Matrox G200eH2 video standard with 16MB of Video RAM   * 1280 x 1024 (32 b/p) * 1920 x 1200 (16 b/p)   HPE iLO 4 On System Management Memory   * 16MB Flash * 256MB DDR3 with ECC (112 MB after ECC and video) | | HPE Server UEFI/Legacy ROM | UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:   * Secure Boot * Operating system specific functionality * Support for > 2.2TB (using GPT) boot drives * USB 3.0 Stack * Embedded UEFI Shell * Mass Configuration Deployment Tool using HP RESTful API for iLO 4 * PXE boot support for IPv6 networks * Boot support for option cards that only support a UEFI option ROM * Network Stack configurations   NOTE:   * The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS * UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI * UEFI FIO Setting (758959-B22) can be selected to configure the system in Legacy mode in the factory for users HPE ProLiant Gen9 Server   [Click here to view more information on UEFI System Utilities function](https://www.hpe.com/us/en/product-catalog/detail/pip.6935826.html) . | | Form factor | * 2U Rack form factor * 8 SFF and 24 SFF Drive Bay Version * 8.73 x 44.55 x 67.94 cm (3.44 x 17.54 x 26.75 in) * 4 LFF and 12 LFF Drive Bay Version * 8.73 x 44.55 x 73.02 cm (3.44 x 17.54 x 28.75 in)   NOTE: Dimensions without bezel | | Embedded Management | * HPE Integrated Lights-Out (HPE iLO)   [Click here to access HPE Integrated Lights Out (iLO) for more details](https://www.hpe.com/us/en/servers/integrated-lights-out-ilo.html) .   * UEFI   [Click here to view more information on UEFI System Utilities function](https://www.hpe.com/us/en/product-catalog/detail/pip.6935826.html) .   * RESTful API   [Click here to access iLO RESTful API Ecosystem](https://www.hpe.com/us/en/servers/restful-api.html) .   * Intelligent Provisioning   [Click here to access Intelligent Provisioning for more information](https://www.hpe.com/us/en/product-catalog/detail/pip.5219984.html) .   * Embedded Remote Support   [Click here to access HPE Get Connected for more information](http://www8.hp.com/us/en/business-services/it-services.html?compURI=1078312#.WBMrqk2a2M8) . | | Server utilities | * Smart Update * HPE Systems Insight Manager (HPE SIM) * Scripting Tool Kit and Windows PowerShell * RESTful Interface Tool * HPE iLO Mobile Application * HPE Insight Online | | Security | * Power-on password * Serial interface control * Administrator's password * UEFI * Integrated Lights-Out can be disabled via a Global Setting * TPM 1.2 * iLO 4 (Integrated Lights-Out 4) has 12 customizable user accounts and SSL encryption * iLO Advanced supports directory services integration |   Software overview   | Feature | Description | | --- | --- | | Operating systems and virtualization software support for ProLiant servers | * Microsoft Windows Server * Red Hat Enterprise Linux (RHEL) * SUSE Linux Enterprise Server (SLES) * Canonical Ubuntu * Oracle Solaris * VMware * Citrix XenServer   NOTE: For more information on Hewlett Packard Enterprise Certified and Supported ProLiant Servers for OS and Virtualization Software and latest listing of software drivers available for your server, please visit our Support Matrix | |