

Spesification

PROCESSOR - 2 SOCKETS

AMD EPYC Processors

AMD EPYC Processor	Cores	Base Frequency	Max Frequency	Max Memory	Wattage	Cache	Memory
EPYC 7601	32	2.2Ghz	3.2Ghz	2TB	180	64MB	2666MT/S
EPYC 7551	32	2.0Ghz	3.0Ghz	2TB	180	64MB	2666MT/S
EPYC 7501	32	2.0Ghz	3.0Ghz	2TB	155/170	64MB	2666MT/S
EPYC 7451	24	2.3Ghz	3.2Ghz	2TB	180	64MB	2400/2666MT/S
EPYC 7401	24	2.0Ghz	3.0Ghz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7351	16	2.4Ghz	2.9Ghz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7301	16	2.2Ghz	2.7Ghz	2TB	155/170	64MB	2400/2666MT/S
EPYC 7281	16	2.1Ghz	2.7Ghz	2TB	155/170	32MB	2400/2666MT/S
EPYC 7251	8	2.1Ghz	2.9Ghz	2TB	120	32MB	2400MT/S

OPERATING SYSTEMS AND VIRTUALIZATION SOFTWARE SUPPORT

- Windows Server 2012 R2 (Most Recent Version)
- Windows Server 2016 (Most Recent Version)
- VMware ESXi 6.5 and U1 upon release
- Red Hat Enterprise Linux (RHEL) 7.4
- SUSE Linux Enterprise Server (SLES) 12 SP3

CHIPSET

No chipset – System on Chip (SoC) design.

ON SYSTEM MANAGEMENT CHIPSET

HPE iLO 5 ASIC

MEMORY

Type:

- Registered (RDIMM), Load Reduced (LRDIMM)
DIMM Slots Available:
 - 32 (16 DIMM slots per processor, 8 channels per processor, 2 DIMMs per channel)
Maximum capacity (LRDIMM):
 - 4.0 TB: 32 x 128 GB LRDIMM @ 2666 MHz
Maximum capacity (RDIMM):
 - 1.0 TB: 32 x 32 GB RDIMM @ 2666 MHz

EXPANSION SLOTS

Slots #	Technology	Bus Width	Connector Width	Slot Form Factor	Notes
1	PCIe 3.0	X8	X8	Full-height, Half-length slot	Proc 1
2	PCIe 3.0	X16	X16	Full-height, Full-length slot	Proc 1
3	PCIe 3.0	X8	X8	Full-height, Half-length slot	Proc 1
1	PCIe 3.0	X8	X8	Full-height, Full-length slot	Proc 2
2	PCIe 3.0	X16	X16	Full-height, Full-length slot	Proc 2
3	PCIe 3.0	X8	X8	Full-height, Half-length slot	Proc 2
1	PCIe 3.0	X8	X8	Full-height, Full-length slot	Proc 2
2	PCIe 3.0	X8	X8	Full-height, Full-length slot	Proc 2

STORAGE CONTROLLERS

Software RAID

- HPE Smart Array S100i SR Gen10 SW RAID Essential RAID Controller
- HPE Smart Array E208i-a SR Gen10 Controller
- HPE Smart Array E208i-p SR Gen10 Controller
- HPE Smart Array E208e-p SR Gen10 Controller Performance RAID Controller
- HPE Smart Array P408i-a SR Gen10 Controller
- HPE Smart Array P408i-p SR Gen10 Controller
- HPE Smart Array P408e-p SR Gen10 Controller
- HPE Smart Array P816i-a SR Gen10 Controller

INTERNAL STORAGE DEVICES

Optical Drive

- Ships standard in Performance Models. Optional: DVD-ROM, DVD-RW
- ### Hard Drives
- None ship standard

MAXIMUM INTERNAL STORAGE

Hot Plug SFF SAS	72.0 TB	24+6 x 2.4 TB (with optional rear SFF drive cage)
Hot Plug SFF SATA	60.0 TB	24+6 x 2 TB (with optional SFF drive cage)
Hot Plug LFF SAS	235.68 TB	12+4+3 x 12 TB + 2 x 3.84 TB (with optional mid – tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug LFF SATA	235.68 TB	12+4+3 x 12 TB + 2 x 3.84 TB (with optional mid – tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug SFF SAS SSD	230.4 TB	24+6 x 7.68 TB (with optional rear SFF drive cage)
Hot Plug LFF SATA SSD	44.16 TB	12+4+3 x 1.92 TB + 2 x 3.84 TB (with optional mid – tray and rear LFF drive cage, plus 2 SFF SSD rear)
Hot Plug SFF NVMe PCIe SSD	38.4 TB NVMe	24 x 1.6 TB NVMe

POWER

- HPE 500W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
- HPE 800W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit
- HPE 1600W Flex Slot Platinum Hot Plug Low Halogen Power Supply Kit

SYSTEM FANS

Standard – fan types included

INTERFACES

Serial:

- Optional, rear

Display Port:

- 1 (SFF 1 front, optional via Universal Media Bay, 826708-B21), 8 LFF chassis standard

FlexibleLOM Network Ports:

- 4 x 1 Gb ports shipping standard with optional FlexibleLOM or stand up card

HPE iLO Remote Management Network Port:

- 1 Gb Dedicated

Front iLO Service Port:

- 1 standard (Not available on 12 LFF chassis or when SID is ordered)

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, or standard on 8LFF chassis

SID (Systems Insight Display):

- Optional

GRAPHICS

Integrated Video Standard

HPE iLO 5 on system management memory

CHASSIS

2U Rack

Chassis Types:

- 8 SFF with optional Universal Media Bay, and optional SFF or NVMe options
- 24 SFF bay with 6SFF rear drive bay options with 30 SFF drive bays total
- 8 LFF with Universal Media Bay
- 12 LFF plus optional 4 LFF mid-plane or 3LFF + 2 SFF drives rear with 19 LFF drive bays total + 2 SFF drives

EMBEDDED MANAGEMENT

- HPE Integrated Lights-Out (HPE iLO)
- UEFI
- Intelligent Provisioning
- iLO RESTful API

SERVER UTILITIES

- Active Health System
- Active Health System Viewer
- Smart Update
- iLO Amplifier Pack
- HPE iLO Mobile Application
- RESTful Interface Tool
- Scripting Tools
- HPE OneView Standard
- HPE Systems Insight Manager (HPE SIM)

SECURITY

- UEFI Secure Boot and Secure Start support
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- Immutable Silicon Root of Trust
- FIPS 140-2 validation (iLO 5 certification in progress)
- Common Criteria certification (iLO 5 certification in progress)
- Configurable for PCI DSS compliance
- Advanced Encryption Standard (AES) and Triple Data Encryption Standard (3DES) on browser
- Support for Commercial National Security Algorithms (CNSA)
- Tamper-free updates – components digitally signed and verified
- Secure Recovery – recover critical firmware to known good state on detection of compromised firmware
- Ability to rollback firmware
- Secure erase of NAND/User data
- TPM (Trusted Platform Module) 1.2 option
- TPM (Trusted Platform Module) 2.0 option
- Bezel Locking Kit option
- Chassis Intrusion detection option