HPE ProLiant e910 Server Blade - Product Information Reference

Part Number:
Published:
Edition:

HPE ProLiant e910 Server Blade - Product Information Reference

Abstract

Part Number:
Published:
Edition:

© Copyright –

Notices

The information contained herein is subject to change without notice. The only warranties for Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Confidential computer software. Valid license from Hewlett Packard Enterprise required for possession, use, or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Links to third-party websites take you outside the Hewlett Packard Enterprise website. Hewlett Packard Enterprise has no control over and is not responsible for information outside the Hewlett Packard Enterprise website.

Acknowledgments

Intel®, Itanium®, Optane™, Pentium®, Xeon®, Intel Inside®, and the Intel Inside logo are trademarks of Intel Corporation in the U.S. and other countries.

AMD and the AMD EPYC™ and combinations thereof are trademarks of Advanced Micro Devices, Inc.

Microsoft® and Windows® are either registered trademarks or trademarks of Microsoft Corporation in the United States and/or other countries.

Adobe® and Acrobat® are trademarks of Adobe Systems Incorporated.

Java® and Oracle® are registered trademarks of Oracle and/or its affiliates.

UNIX® is a registered trademark of The Open Group.

All third-party marks are property of their respective owners.

Revision history

Part number	Publication date	Edition	Summary of changes

Table of contents

Overview

- Summary ... 6
  - Product description ... 6
- Standard Models ... 6
  - New RoHS compliant part numbers ... 7
  - Standard Models ... 7
- Product features ... 7

Specifications

- Physical Specifications ... 16
- Electrical Specifications ... 16
- Environmental Specifications ... 16
- Safety Certifications ... 17

Compatibility/Supportability

- Spare Parts ... 18
  - New model specific parts lists ... 18
  - Mechanical Components ... 18
    - HPE ProLiant e910 Server Blade ... 20
    - 1U Air Baffle ... 20
    - 2U Air Baffle ... 20
    - M.2 Screw Kit ... 20
  - System Components ... 21
    - DIMMs ... 22
    - System Board ... 22
    - Processor heatsink ... 22
    - Processor ... 23
  - Server Blade Options ... 24
    - PCIe Riser Cards ... 26
    - Network Riser ... 26
    - HPE ProLiant e910 NVMe M.2 enablement board ... 26
    - GPU Power Enablement Kit ... 27
    - HPE e910 GPU Cable Kit ... 27
    - HPE e910 GPU PCIe 8-pin power cable kit ... 27
    - HPE e910 GPU PCIe 8+6 pin Power Cable Kit ... 27
    - 2U full-height, full-length left riser kit ... 28

HPE ProLiant e910 8-pin PCIe power Y-cable kit 28
Option Parts 28
New model specific parts lists 29
Processor Option 29
Interconnect Option 30
Riser Options 31
Storage Expansion Option 31
Power Supply Options 32
HPE Memory 32
HPE SSD 33
Networking 34
Accelerators and Associated Accessories 35
SSD 36
Network Riser Kits 36
Supported Cables 37
OS Boot Device 38
OS Compatibility 38
Software Compatibility 39
Useful Links 39

Summary

Subtopics

Product description

Product description



The HPE ProLiant e910 server blade allows you to deploy edge compute close to where the data is being generated, conserving uplink bandwidth, connectivity cost, lowering security and corruption risk, improving compliance to data protection laws, and greatly reducing time to actionable insight.

The HPE ProLiant e910 server blade features a rugged, compact design that is certified for extended thermal environments of 0° to 55° C within the HPE Edgeline EL8000 chassis. The HPE ProLiant e910 server blade architecture is based on Intel Xeon SP processors to give ususersncreased compute power and speed. The modular design of the HPE ProLiant e910 server blade provides a broad range of configuration choices in networking, storage, I/O for optimizing users unique edge workloads.

Standard Models

Subtopics

New RoHS compliant part numbers
Standard Models

New RoHS compliant part numbers

To find the latest RoHS compliance information, please use the HPE PartSurfer (**Click here to visit HPE PartSurfer website**) and click on one of the linked model numbers. When locating RoHS information in PartSurfer, user can use the Option part number for the components, the sales order number for a system that the component is used in, or the Spare part number for a specific part. User can find the sales order numbers and Option part numbers in the Product QuickSpecs.

Standard Models

Description	Model Number
HPE ProLiant e910 1 unit configure-to-order blade server	P12381-B21 **Click here to obtain the parts list of this model**.
HPE ProLiant e910 2 unit configure-to-order blade server	P12382-B21 **Click here to obtain the parts list of this model**.
HPE Edgeline EL8000 5U Configure-to-order front cabling chassis	P12379-B21 **Click here to obtain the parts list of this model.**

Product features

Feature	Description
Processor [1]	

Intel Xeon SP	Frequency	Cores	L3 Cache	Power Watts	UPI Links	DDR4 MHz	Max Memory TB
2nd Generation Intel Xeon Scalable Processor Family							
Platinum 8280L	2.7	28	38.5	205	3	2933	4.5
Platinum 8276	2.2	28	38.5	165	3	2933	1

Feature	Description							
	Intel Xeon SP	Frequency	Cores	L3 Cache	Power Watts	UPI Links	DDR4 MHz	Max Memory TB
	Gold 6258R	2.7	28	38.5	205	2	2933	1
	Gold 6254	3.1	18	24.75	200	3	2933	1
	Gold 6252	2.1	24	35.75	150	3	2933	1
	Gold 6244	3.6	8	24.75	150	3	2933	1
	Gold 6240L	2.6	18	24.75	150	3	2933	4.5
	Gold 6238R	2.2	28	38.5	165	2	2933	1
	Gold 6230N	2.3	20	27.5	125	3	2933	1
	Gold 6230R	2.1	26	35.75	150	2	2933	1
	Gold 6212U	2.4	24	35.75	165	n/a	2933	1
	Gold 6208U	2.9	16	22	150	n/a	2933	1
	Gold 5220R	2.2	24	35.75	150	2	2667	1
	Gold 5218R	2.1	20	27.5	125	2	2667	1
	Gold 5217	3.0	8	11	115	2	2667	1
	Silver 4214	2.2	12	16.5	85	2	2400	1
	Silver 4210	2.2	10	13.75	85	2	2400	1
	Silver 4210R	3.2	8	11	130	2	2400	1
Chipset [2]	Intel C624 Chipset **Click here to access for more information.**							

Feature	Description
Graphics	**Integrated Video Standard** • Video modes up to 1920 x 1200 60 Hz (32 bp) • 16MB video memory **HPE iLO 5 on system management memory** • 32MB Flash • 4Gb DDR 3 with ECC protection
On System Management Chipset [3]	HPE iLO 5 ASIC
Memory [4]	

Type	**HPE Edgeline DDR4 Registered Dual In-line Memory Module (RDIMM), Load-Reduced Dual In-Line Memory Module(LRDIMM)**	
Supported Dual In-line Memory Module (DIMM)	DDR4-2933	
DIMM Slots available	12	12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel
Maximum capacity (LRDIMM)	1.5TB	12 x 128GB LRDIMM
Maximum capacity (LRDIMM)	768GB	6 x 128GB LRDIMM
Maximum capacity (RDIMM)	768GB	12 x 64GB LRDIMM
Maximum Capacity (RDIMM)	384GB	12 x 32GB RDIMM

Expansion slots [5]	The ProLiant e910 Server Blades I/O Options are configured through 2 Riser Connections. There is Riser Connection on the Right side (RR) on the Left side (LR).

Feature	Description				
	ProLiant e 910 1U	**Slot Form F actor(SFF)**	**Riser**	**Technology**	**Bus Width**	**Connector Width**
	Slot 1 (Standard)	Half-height, half length	LR	PCIe 3.0	X16	X16
	ProLiant e 910 2U	**SFF**	**Riser**	**Technology**	**Bus Width**	**Connector Width**
	Slot 1 (Optional) (1)	Full-height, full-length	LR	PCIe 3.0	X8	X16
	Slot 2 (Optional) (1)	Full-height, full- length	LR	PCIe 3.0	X8	X16
	Slot 1 (Optional) (2)	Full-height, full- length	LR	PCIe 3.0	X16	X16
	Slot 3 (Optional) (3)	Half-height, half-length	RR	PCIe 3.0	X8	X16
	Slot 4 (Optional) (3)	Half-height, half-length	RR	PCIe 3.0	X8	X16
Network	• **Intel X722 Quad – port 10 GbE** ◦ P17295-B21: HPE ProLiant e910 2p 1 GbE RJ45 Network Riser ◦ P17296-B21: HPE ProLiant e910 2p 10 GbE Small Form-factor Pluggable Plus (SFP+) Network Riser ◦ P12392-B21: HPE ProLiant e910 4x10 GbE Quad Small Form-factor Pluggabl Plus (QSFP+) Module • **Intel I210 1 GbE** ◦ Dual RJ45 - HPE e910 2p 1 GbE RJ45 Mod (P17295-B21) ◦ Dual SFP+ HPE e910 2p 10 GbE SFP+ Mod (P17296-B21) ◦ QSFP+ HPE e910 4p 10 GbE QSFP+ Mod (P12392-B21)				

Feature	Description						
SATA and PCIe controllers are integrated in the Intel Chipset	**Solid State Drive (SSD) Slot #**	**Physical Location**	**Technology**	**Bus Width**	**Connector Width**	**Form Factor**	**Supported Sizes**
	1	System board	SATA-3, PCIe-3	x1, x2	x1, x2	2242/2280	120GB 240GB 256GB 512GB 1TB 2.048TB
	2	System board	SATA-3, PCIe-3	x1, x2	x1, x2	2242/2280	120GB 240GB 256GB 512GB 1TB 2.048TB
	3	Expansion option	PCIe-c, on-Volatile Memory Express (NVMe)	x4	x4	2280/22110	256GB 512GB 1TB 2.048TB 960GB 1.92TB 3.84TB
	4	Expansion option	PCIe-c, NVMe	x4	x4	2280/22110	256GB 512GB 1TB 2.048TB 960GB 1.92TB 3.84TB

Feature	Description						
	Solid State Drive (SSD) Slot #	**Physical Location**	**Technology**	**Bus Width**	**Connector Width**	**Form Factor**	**Supported Sizes**
	5	Expansion option	PCIe-c, NVMe	x4	x4	2280/22110	256GB 512GB 1TB 2.048TB 960GB 1.92TB 3.84TB
	6	Expansion option	PCIe-c, NVMe	x4	x4	2280/22110	256GB 512GB 1TB 2.048TB 960GB 1.92TB 3.84TB
	7	Right riser (2U Blade)	NVMe	x4	x4	22110	960GB 1.92TB 3.84TB
	8	Right riser (2U Blade)	NVMe	x4	x4	22110	960GB 1.92TB 3.84TB
Maximum internal storage	**M.2 22110 NVMe solid state device** • 15.2TB • 4x3.8TB						
Interfaces	• Server blade Link LED/button • Server blade UID LED/button						

Feature	Description
Form factor	HPE ProLiant e910 server blades plug into the HPE Edgeline EL8000 systems
HPE Server Unified Extensible Firmware Interface (UEFI) ROM [6]	UEFI is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with user's server at boot time. The HPE ProLiant e910 server blades default to UEFI and does not support Legacy BIOS boot mode. 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 (only used in HPE Edgeline System) • Embedded UEFI Shell • Mass Configuration Deployment Tool using RESTful API for iLO 4 • PXE boot support for IPv6 networks • Boot support for option cards that only support a UEFI option ROM (only used in HPE Edgeline System) • Network Stack configurations
Embedded management	• HPE Integrated Lights-Out Advanced (iLO) (HPE iLO Advanced) • UEFI • RESTful API • Intelligent Provisioning
Server Utilities	• Edgeline Component Pack • Scripting Tool Kit (STK) and Windows PowerShell • RESTful Interface Tool
HPE Trusted Platform Module (TPM)	HPE TPM 2.0 is embedded on the Server Blade and can be enabled and disabled using the BIOS.
UEFI [7]	Configure and boot user's servers securely with industry standard UEFI. **Click here for more details on UEFI**. • **RESTful API**

Feature	Description
	RESTful API for iLO 5 is Redfish 1.0 conformance for simplified server management such as configuration and maintenance tasks based on modern industry standards. **Click here for more details on RESTful API**. • **Intelligent provisioning** Hassle free server and OS provisioning for 1 or few servers with intelligent provisioning. **Click here for more details on intelligent provisioning**.
HPE Insight	Online
Security [9]	• Serial interface control • Administrator's password • Power-ON password • TPM2.0 • UEFI • iLO 5 (iLO 4) has 12 customizable user accounts and SSL encryption [1] • iLO 5 can be disabled via a Global Setting [2] • iLO Advanced supports directory services integration [3]

NOTE

1.
   - **Click here to know more information regarding Intel Xeon SP**.
   - The ProLiant e910 server blade currently supported max memory capacity is 768GB.
   - The UPI functionality is not embedded on the 6212U processor which is single socket optimized.
2. **Click here to know more about chipset**.
3. **Click here to know more about On System Management Chipset**.
4.

Feature	Description
	• Rules under “Memory” section must be followed for configuring and mixing of DIM Ms. • Registered DIMMs (RDIMMs), Load Reduced DIMMs (LRDIMMs). 5. • These 2 slots are available on HPE part number (P12391-B21) • This slot is available on HPE part number (P12388-B21) • These 2 slots are available on HPE part number (P12389-B21) 6. • The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utili ty (RBSU) of legacy BIOS. **Click here for more information on UEFI**. • For UEFI Boot Mode, boot environment and OS image installations should be confi gured properly to support UEFI. 7. • Full REST API is available when the server is installed in a HPE Edgeline System. • Intelligent provisioning is only supported when the server is installed in a HPE Edg eline System. • HPE iLO provides only Remote Console and Virtual Media capabilities when the ser ver is installed in a HPE Moonshot 1500 System. • HPE iLO provides the full set of ProLiant features when the server is installed in a HPE Edgeline System. Advanced Pack licenses will be required for enhanced capabi lities, including Remote Console and Virtual Media. 8. • The Edgeline Component Pack is only supported when the server is installed in a H PE Edgeline System. • This feature will be available when the server is installed in a HPE Edgeline System. 9. • 1, 2 and 3 are delivered by iLO Chassis Manager in HPE Moonshot 1500 System an d HPE m710x’s embedded iLO4 in the HPE Edgeline System.

Feature	Description
	• 1, 2 and 3 require an HPE iLO Advanced License when the HPE m710x is installed i n a HPE Edgeline System.

Physical Specifications

Specifications	Description
Dimensions (H x W x D)	4.05 x 21.30 x 36.3 cm (1.60 x 8.39 x 14.3 in)- e91 0 1U blade
	8.33 x 21.30 x 34.93 cm (3.28 x 8.39 x 14.3 in) – e 910 2U blade

Electrical Specifications

Specifications	Description
Typical Power	300 W per e910 1U
Max Power	400 W per e910 1U

Environmental Specifications

Specifications	Description	
System Inlet Temperature	**Standard operating**	**HPE Edgeline EL8000 Chassis and ProLian t e910 Server Blades:** Typical range is 10° to 35°C (50° to 95°F) with altitude derating.
	Extended operating	**HPE Edgeline EL8000 and ProLiant e910 Server Blades:** Depending on hardware conf

Specifications	Description	
		iguration, the supported system inlet range can be extended up to 55°C. Compliance to ASHRAE A3 and A4 standards is also availab le. The approved hardware configurations for this system are listed in the Edgeline system documentation.

Safety Certifications

Specifications	Description	
Emissions Classification (E MC)	**FCC rating**	Class A
	Normative standards	• CISPR 22; • EN55022; • EN55024; • FCC CFR 47, • Pt 15; • ICES-003; • CNS13438; • K22; • K24; • EN 61000-3-2; • EN 61000-3-3; • EN 60950-1; • IEC 60950-1



NOTE

Product conformance to cited product specifications is based on sample (type)testing, eval uation, or assessment. This product or family of products is eligible to bearthe appropriate c ompliance logos and statements.

Spare Parts

Subtopics

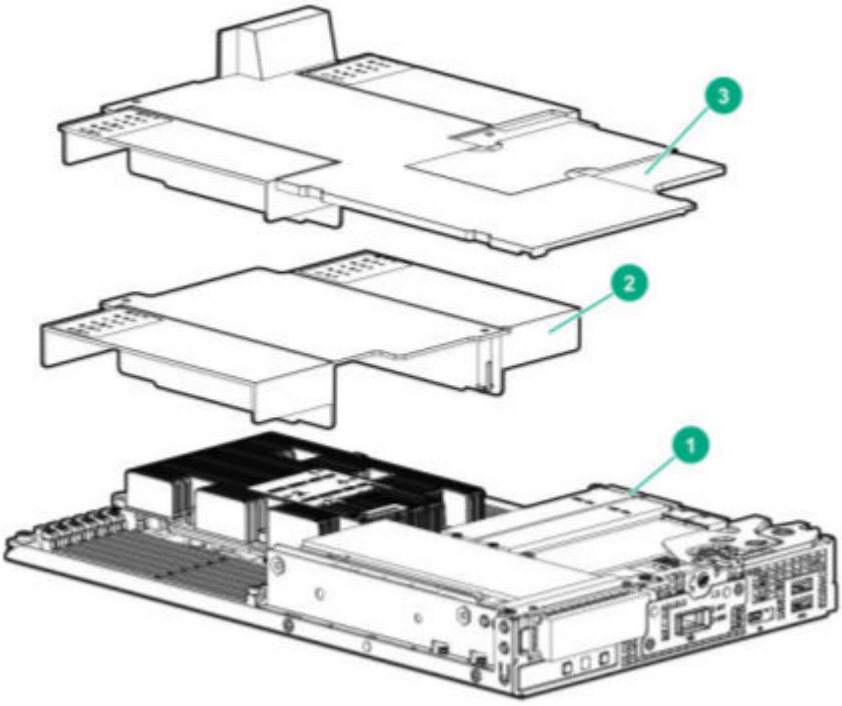
New model specific parts lists
Mechanical Components
System Components
Server Blade Options

New model specific parts lists

IMPORTANT: To obtain current part number information for a specific product model, use the Standard Models page for this product family.

- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HPE PartSurfer web site. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer web site utility).
- To look up RoHS-compliant information in PartSurfer, use the component's option part number or the sales order number for a system in which the component is used (Available in the QuickSpecs or Standard Models page).

Mechanical Components



Item	Description
1	HPE ProLiant e910 Server Blade
2	1U air baffle
3	2U air baffle
4	M.2 Screw kit [1]

NOTE

1. Not shown in image

Subtopics

HPE ProLiant e910 Server Blade
1U Air Baffle
2U Air Baffle
M.2 Screw Kit

HPE ProLiant e910 Server Blade

Description	Spare Part Number
e910 2U Server blade	P13961-001
HPE ProLiant e910 1U System Board	P35234-001

1U Air Baffle

Description	Spare Part Number
1U Air baffle	P13219-001

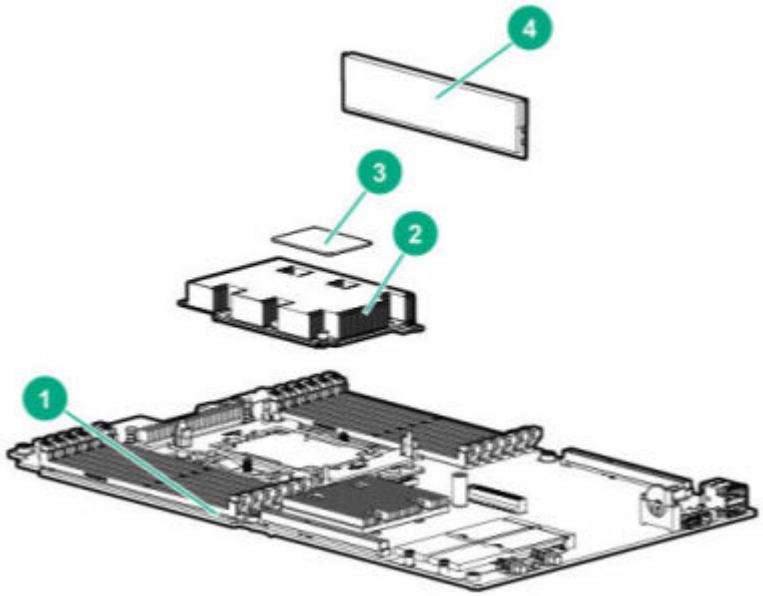
2U Air Baffle

Description	Spare Part Number
2U Air baffle	P13220-001

M.2 Screw Kit

Description	Spare Part Number
Screw kit M2x2.5+M.2 clip/black spacer	P15495-001

System Components



Item	Description
1	System board
2	Processor heatsink
3	Processor
4	DIMM

Subtopics

DIMMs
System Board
Processor heatsink
Processor

DIMMs

Description	Spare Part Number
HPE Edgeline 8GB (1 x 8GB) Single Rank x8 DDR4 -2933 CAS-21-21-21 registered memory kit	P13208-001
HPE Edgeline 16GB (1 x 16GB) Dual Rank x4 DDR4 -2933 CAS-21-21-21 registered memory kit	P13209-001
HPE Edgeline 32GB (1 x 32GB) Dual Rank x4 DDR4 -2933 CAS-21-21-21 registered memory kit	P13210-001
HPE Edgeline 64GB (1 x 64GB) Quad Rank x4 DDR4 -2933 CAS-21-21-21 load reduced memory kit	P13211-001
HPE Edgeline 128GB (1 x 128GB) Octal Rank x4 DD R4-2933 CAS-21-21-21 load reduced memory kit	P13212-001

System Board

Description	Spare Part Number
Mother board	P13218-001

Processor heatsink

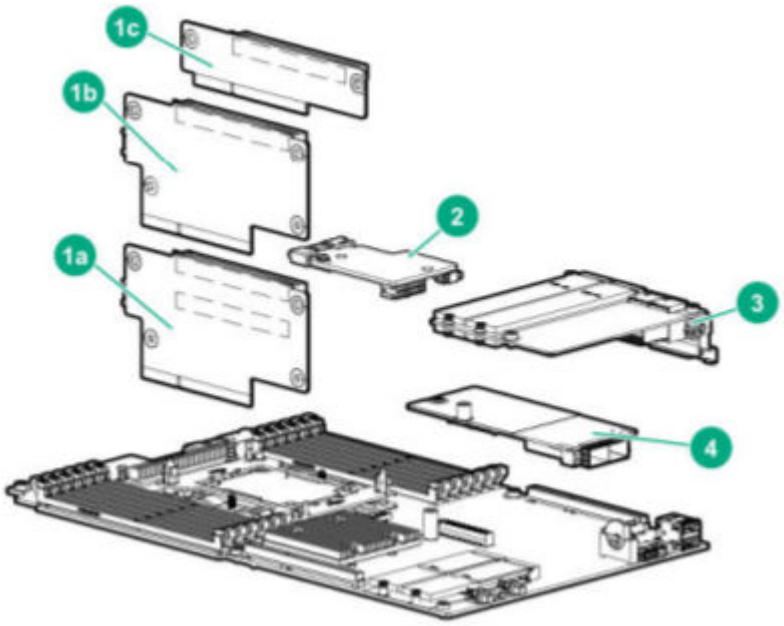
Description	Spare Part Number
e910 Processor heatsink	P13214-001

Processor

Description	Spare Part Number
CPU CLX-R 5218R - 2.1G,20C,125 W	P25090-001
Intel Xeon Gold 6252 v4 Twenty Four-Core 64-bit processor - 2.10 GHz (Cascade Lake, 22MB cache, 150 W Thermal Design Power (TDP), socket LGA-3647)	P11619-001
Intel Xeon Silver 4210 v4 Ten-Core 64-bit processor - 2.20 GHz (Cascade Lake, 13.75MB cache, 85 W TDP, socket FCLGA3647)	P11606-001
Intel Xeon-Gold 6230R v4 Twenty Six-Core 64-bit processor - 2.1 GHz (150 W TDP)	P25095-001
Intel Xeon Silver 4214 v4 Twelve-Core 64-bit processor - 2.20 GHz (Cascade Lake, 16.5MB cache, 85 W TDP, socket FCLGA3647)	P11607-001
Intel Xeon-Gold 5220R v4 twentyfour-Core 64-bit processor - 2.2 GHz (125 W TDP)	P19241-001
Intel Xeon-Gold 6238R v4 Twenty Eight-Core 64-bit processor - 2.2 GHz (165 W TDP)	P25096-001
Intel Xeon CLX 8276 Twenty Eight-Core 64-bit processor - 2.20 GHz (Cascade Lake, 38.5MB cache, 165 W TDP, socket FCLGA3647)	P11624-001
Intel Xeon Gold CLX 6230N Twenty-Core 64-bit processor - 2.30 GHz (Cascade Lake, 27.5MB cache, 125 W TDP, socket FCLGA3647)	P12022-001
Intel Xeon-Silver 4210R v4 Ten-Core 64-bit processor - 2.4 GHz (100 W TDP)	P19246-001
CPU CLX 6240L - 2.6 GHz 150 W 18C	P12015-001
Intel Xeon Gold 6212U v4 Twenty Four-Core 64-bit processor - 2.40 GHz (Cascade Lake, 35.75MB cache, 165 W TDP, socket FCLGA3647)	P11643-001
Intel Xeon Platinum 8280M Twenty Eight-Core 64-bit processor - 2.70 GHz (Cascade Lake, 38.5MB cache, Intel QuickPath interconnect (QPI) speed 8.0 GT/s, 205 W TDP)	P11630-001
tel Xeon Platinum CLX 8280L Twenty Eight-Core 64-bit processor - 2.70 GHz (Cascade Lake, 38.5MB cache, Intel QPI speed 8.0 GT/s, 205 W TDP	P11635-001

Description	Spare Part Number
Intel Xeon-Gold 6258R v4 Twenty Eight-Core 64-bit processor - 2.7 GHz (205 W TDP)	P25101-001
Intel Xeon-Gold 6208U v4 Sixteen-Core 64-bit processor - 2.9 GHz (150 W TDP)	P25102-001
Intel Xeon Gold 5217 v4 Eight-Core 64-bit processor - 3.00 GHz (Cascade Lake, 11MB cache, 115 W TDP, socket FCLGA3647)	P11611-001
Intel Xeon Gold 6254 v4 Eighteen-Core 64-bit processor - 3.10 GHz (Cascade Lake, 24.75MB cache, 200 W TDP, socket FCLGA3647)	P11620-001
Intel Xeon Gold CLX 6244 Eight-Core 64-bit processor - 3.60 GHz (Cascade Lake , 24.75MB cache, Intel QPI speed 8.0 GT/s, 150 W TDP, socket FCLGA3647)	P11617-001

Server Blade Options



Item	Description
1	**PCIe riser cards** a) 2U left x8 half height half length PCIe riser card b) 2U left x16 full height full length PCIe riser card c) 1U x16 left half height half length PCIe riser card
2	GPU Enablement kit spare part
3	HPE ProLiant e910 NVMe M.2 enablement board
4	Network riser card (QSFP+)
5	HPE e910 GPU Cable Kit [1]
6	HPE e910 GPU PCIe 8-pin Power Cable Kit [1]
7	HPE e910 GPU PCIe 8+6 pin Power Cable Kit [1]

NOTE

1. Not shown in image

Subtopics

PCIe Riser Cards
Network Riser
HPE ProLiant e910 NVMe M.2 enablement board
GPU Power Enablement Kit
HPE e910 GPU Cable Kit
HPE e910 GPU PCIe 8-pin power cable kit
HPE e910 GPU PCIe 8+6 pin Power Cable Kit
2U full-height, full-length left riser kit
HPE ProLiant e910 8-pin PCIe power Y-cable kit

PCIe Riser Cards

Description	Spare Part Number
HPE ProLiant e910 1U x16 Half Height, Half Length (HHHL) left riser kit	P13221-001
HPE ProLiant e910 2U x16 Full Height Full Length (FHFL) left riser kit	P13292-001
HPE ProLiant e910 2U x16/x16 HHHL right riser kit	P13222-001
HPE ProLiant e910 2U x16/x16 FHFL left riser kit	P13223-001

Network Riser

Description	Spare Part Number
HPE ProLiant e910 4x10 GbE QSFP+ module	P13224-001
PCA 1G RJ45 network board	P20590-001
PCA 10G SFP+ network board	P20589-001

HPE ProLiant e910 NVMe M.2 enablement board

Description	Spare Part Number
HPE ProLiant e910 4-slot NVME M.2 enablement kit	P13205-001
HPE ProLiant e910 4-slot NVME M.2 Enablement Ki t	P13205-001

GPU Power Enablement Kit

Description	Spare Part Number
PCA 300 W GPU power board	P13204-001
Cable, signal, GPU board	P13960-001

HPE e910 GPU Cable Kit

Description	Spare Part Number
e910 CPU 8p power	P13206-001

HPE e910 GPU PCIe 8-pin power cable kit

Description	Spare Part Number
e910 GPU 8p	P21838-001

HPE e910 GPU PCIe 8+6 pin Power Cable Kit

Description	Spare Part Number
CBL, e910 PCIe Y-cbl 8p/6p power	P21837-001

2U full-height, full-length left riser kit

Description	Spare Part Number
PCA, Left 2U x8/x8 Storage Board	P24756-001
Left 2U x16 Storage Board	P24757-001

HPE ProLiant e910 8-pin PCIe power Y-cable kit

Description	Spare Part Number
e910 GPU 2x6p	P21836-001

Option Parts

Subtopics

- New model specific parts lists
- Processor Option
- Interconnect Option
- Riser Options
- Storage Expansion Option
- Power Supply Options
- HPE Memory
- HPE SSD
- Networking
- Accelerators and Associated Accessories
- SSD
- Network Riser Kits
- Supported Cables
- OS Boot Device

New model specific parts lists

IMPORTANT: To obtain current part number information for a specific product model, use the Standard Models page for this product family.

- The product Standard Models page now links the model SKU numbers to the spare parts list for each model found on the HPE PartSurfer web site. (To report missing or incorrect parts information in PartSurfer, please use the "Contact us" and "Missing or incorrect data" links within the PartSurfer web site utility).
- To look up RoHS-compliant information in PartSurfer, use the component's option part number or the sales order number for a system in which the component is used (Available in the QuickSpecs or Standard Models page).

Processor Option

Description	Option Part Number
Select one	
HPE ProLiant e910 Intel Xeon-Gold 6212U (2.4 GHz/24-core/165 W) processor kit	P12395-B21
HPE ProLiant e910 Intel Xeon-Gold 6244 (3.6 GHz/8-core/150 W) FIO processor kit	P12396-B21
HPE ProLiant e910 Intel Xeon-Gold 6230N (2.3 GHz/20-core/125 W) FIO processor kit	P17292-B21
HPE ProLiant e910 Intel Xeon-Platinum 8280M (2.7 GHz/28-core/205 W) processor kit	P12398-B21
HPE ProLiant e910 Intel Xeon-Gold 6254 (3.1 GHz/18-core/200 W) FIO processor kit	P12397-B21
HPE ProLiant e910 Intel Xeon-Silver 4210 (2.2 GHz/10-core/85 W) FIO processor kit	P12399-B21
Intel Xeon-Platinum 8280L (2.7 GHz/28-core/205 W) Processor Kit for HPE Edgeline	P28914-B21
Intel Xeon-Platinum 8276 (2.2 GHz/28-core/165 W) Processor Kit for HPE Edgeline	P25811-B21

Description	Option Part Number
Intel Xeon-Gold 5217 (3.0 GHz/8-core/115 W) Processor Kit for HPE Edgeline	P25813-B21
Intel Xeon-Gold 5218R (2.1 GHz/20-core/125 W) Processor Kit for HPE Edgeline	P28916-B21
Intel Xeon-Gold 5220R (2.2 GHz/24-core/150 W) Processor Kit for HPE Edgeline	P28917-B21
Intel Xeon-Gold 6208U (2.9 GHz/16-core/150 W) Processor Kit for HPE Edgeline	P28910-B21
Intel Xeon-Gold 6230R (2.1 GHz/26-core/150 W) Processor Kit for HPE Edgeline	P28918-B21
ntel Xeon-Gold 6238R (2.2 GHz/28-core/165 W) Processor Kit for HPE Edgeline	P28919-B21
Intel Xeon-Gold 6240L (2.6 GHz/18-core/150 W) Processor Kit for HPE Edgeline	P28911-B21
Intel Xeon-Gold 6252 (2.1 GHz/24-core/150 W) Processor Kit for HPE Edgeline	P28912-B21
Intel Xeon-Gold 6258R (2.7 GHz/28-core/205 W) Processor Kit for HPE Edgeline	P28920-B21
Intel Xeon-Silver 4210R (2.4 GHz/10-core/100 W) Processor Kit for HPE Edgeline	P28915-B21
Intel Xeon-Silver 4214 (2.2 GHz/12-core/85 W) Processor Kit for HPE Edgeline	P28908-B21

Interconnect Option

Description	Option Part Number
HPE 10 GbE Unmanaged Switch (Min:0, Max:2)	
HPE Edgeline EL8000 8SFF SAS/SATA drive bay	P17297-B21



NOTE

Unmanaged Ethernet switch that takes upto one 10 GbE lanes from each compute blade and directs it to one external SFP+ uplink.

Riser Options

Description	Option Part Number
ProLiant e910 1U Server Blade (Select zero to one)	
HPE ProLiant e910 1U x16 HHHL left riser kit	P12384-B21
ProLiant e910 2U Server Blade: (Select one or two depending on combination)	
HPE ProLiant e910 2U x16/x16 HHHL right riser kit	P12389-B21
HPE ProLiant e910 2U x16/x16 FHFL left riser kit	P12391-B21
HPE ProLiant e910 2U x16 FHFL left riser kit	P12388-B21
HPE ProLiant e910 2U x16 FHFL left riser kit	P22514-B21
HPE ProLiant e910 2U 2x16 FHFL left riser kit	P22516-B21

NOTE

The HHHL right riser kit (P12389-B21) contains qty2 M.2 SSD slots

When the HHHL right riser kit (P12389-B21) is selected the M.2 enablement kit (P12386 -B21) is not available

Storage Expansion Option

Description	Option Part Number
ProLiant e910 1U, 2U Server Blade: (Select zero or one)	
HPE ProLiant e910 4-slot NVME M.2 enablement kit	P12386-B21

NOTE

Description	Option Part Number
The M.2 enablement kit (P12386-B21) supports Qty4 of M.2 2280 and M.2 22110 SSDs m ixing of 2280 and 22110 SSD form factors are allowed	

Power Supply Options

Description	Option Part Number
Select One or Two (for Redundancy)	
HPE Edgeline EL8000 1500 W 264 V ac front cablin g power supply kit	P11290-B21
HPE Edgeline EL8000 1500 W -48 V dc front cablin g power supply kit	P11291-B21

HPE Memory

Description	Option Part Number
Select 1 to 12 of the following:	
HPE Edgeline 8GB (1x8GB) Single Rank x8 DDR4-2 933 CAS-21-21-21 registered memory kit	P12400-B21
HPE Edgeline 16GB (1x16GB) Dual Rank x4 DDR4 -2933 CAS-21-21-21 registered memory kit	P12401-B21
HPE Edgeline 32GB (1x32GB) Dual Rank x4 DDR4 -2933 CAS-21-21-21 registered memory kit	P12402-B21
HPE Edgeline 64GB (1x64GB) Quad Rank x4 DDR4 -2933 CAS-21-21-21 load reduced memory kit	P12403-B21
HPE Edgeline 128GB (1x128GB) Octal Rank x4 DD R4-2933 CAS-21-21-21 load reduced memory kit	P12404-B21

Description	Option Part Number

NOTE

1. Mixing of RDIMMs and LRDIMMs is not allowed
2. Mixing of different LRDIMM capacity kits is not allowed (i.e 64GB and 128GB)
3. Standard 2nd generation processors (i.e. x2xx) can only support up to and including 10 24GB Max of memory per processor/socket

HPE SSD

Description	Option Part Number
Select 0 to 2 of the following:	
HPE 120GB SATA M.2 2242 SSD field upgradable kit	866842-B21
HPE 240GB SATA M.2 2242 SSD field upgradable kit	866844-B21
Select 0 to 6 of the following:	
HPE 256GB NVMe x4 Lanes Read Intensive M.2 2280 1 yr Wty extended temperature SSD	880262-B21
HPE 512GB NVMe x4 Lanes Read Intensive M.2 2280 1 yr Wty extended temperature SSD	880264-B21
HPE 1TB NVMe x4 Lanes Read Intensive M.2 2280 1 yr Wty extended temperature SSD	880266-B21
HPE 2048GB NVMe x4 Lanes Read Intensive M.2 2280 1 yr Wty extended temperature SSD	P00375-B21
HPE Edgeline 960GB NVMe x4 Lanes Mixed Use (MU) M.2 22110 3 yr Wty extended temperature SSD	P05892-B21
HPE Edgeline 1.92TB NVMe x4 Lanes MU M.2 22110 3 yr Wty extended temperature SSD	P05896-B21
HPE Edgeline 3.84TB NVMe x4 Lanes MU M.2 22110 3 yr Wty extended temperature SSD	P05900-B21

Description	Option Part Number

NOTE

1. There are two M.2 slots embedded on the system board which accept either SATA M.2 2242 SSD or NVMe M.2 2280 SSD, but not NVMe 22110 SSD
2. The HPE e910 4 Slot NVMe M.2 enablement kit (P12386-B21) may be selected for an additional quantity of four M.2 slots. When the NVMe M.2 enablement kit is selected th e HPE e910 2U x16/x16 HHHL right riser kit is not available (P12389-B21).
   - The HPE e910 4 Slot NVMe M.2 enablement kit (P12386-B21) supports both NV Me 2280 SSDs & NVMe 22110 SSDs
   - The HPE e910 4 Slot NVMe M.2 enablement kit (P12386-B21) allows mixing of N VMe M.2 2280 SSD and NVMe M. 22110 SSDs
3. When the Riser Option , HHHL right riser kit (P12389-B21) is selected, two additional M.2 SSD slots are available which support NVMe M.2 22110.

Networking

Description	Option Part Number
HPE Ethernet 10Gb 2-port 562SFP+ adapter	727055-B21
HPE Ethernet 1Gb 4-port 366T adapter	811546-B21
HPE Ethernet 10/25Gb 2-port 640SFP28 adapter	817753-B21
HPE Ethernet 10/25Gb 2-port 661SFP28 adapter	870825-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QS FP28 adapter	872726-B21
HPE IB FDR/EN 40Gb 2P 544+Quad Small Form-fa ctor Pluggable (QSFP) adapter	764284-B21
HPE InfiniBand EDR/Ethernet 100Gb 2-port 841QS FP28 adapter	872726-H21

Description	Option Part Number
Pensando Distributed Services Platform DSC-25 Enterprise 10/25Gb 2-port SFP28 Card	P26966-B21

Accelerators and Associated Accessories

Description	Option Part Number
HPE NVIDIA Tesla T4 16GB computational accelerator	R0W29A
Intel Stratix 10 SX FPGA accelerator [1]	R0X82A
HPE ProLiant e910 PCIe 8-pin cable kit	P12405-B21
HPE NVIDIA Tesla V100 PCIe 32GB computational accelerator	Q9U36A
HPE ProLiant e910 CPU 8-pin cable kit [2]	P12393-B21
HPE NVIDIA Quadro RTX 6000 graphics accelerator	R0Z45A
HPE ProLiant e910 PCIe Y-cable 8-pin/6-pin cable kit [3]	P17291-B21
HPE ProLiant e910 300 W GPU power enablement kit [4]	P12383-B21

NOTE

1. This is the cable for Intel Stratix 10 SX FPGA Accelerator (R0X82A) – must be chosen when the FPGA is chosen.
2. This is the cable for HPE NVIDIA Tesla V100-32GB PCIE Module (Q9U36A) – must be chosen when the GPU is chosen.
3. This is the cable for HPE NVIDIA Quadro RTX6000 GPU Mod (R0Z45A) – must be chosen when the GPU is chosen.
4. This is the GPU power board for e910 2U blade (P12382-B21). Must be chosen when ANY GPU (except the Tesla T4) or FPGA is chosen.

SSD

Description	Option Part Number
Installed on e910 System Board	
HPE Edgeline 960GB NVMe Gen4 Mainstream Performance MU M.2 22110 Extended Temp PM9A3 SSD	P49021-B21
HPE Edgeline 1.92TB NVMe Gen4 Mainstream Performance MU M.2 22110 Extended Temp PM9A3 SSD	P49023-B21
HPE Edgeline 3.84TB NVMe Gen4 Mainstream Performance MU M.2 22110 Extended Temp PM9A3 SSD	P49025-B21

Network Riser Kits

Option Part Number

Description	Option Part Number
HPE ProLiant e910 4x10 GbE QSFP+ module	P12392-B21
HPE ProLiant e910 2-port 1 GbE RJ45 module	P17295-B21
HPE ProLiant e910 2-port 10 GbE SFP+ module	P17296-B21

NOTE

Exactly one of these two risers must be chosen when the 10 GbE SFP+ Switch is chosen.

Supported Cables

Description	Option Part Number
HPE Edgeline 1/10Gb SFP+ SR 400 m Transceiver	P44258-B21
HPE Edgeline 10/25Gb SFP28 SR 100 m Transceiver	P44259-B21
HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable (DAC)	JG326A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 3 m DAC	JG327A
HPE FlexNetwork X240 40G QSFP+ QSFP+ 5 m DAC	JG328A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1 m DAC splitter cable	JG329A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3 m DAC splitter cable	JG330A
HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5 m DAC splitter cable	JG331A
HPE X132 10G SFP+ LC SR transceiver	J9150A
Assy, 10Gb SR SFP +	455885-001
Aruba 1G SFP RJ45 T 100 m Cat5e XCVR	J8177D
HPE X240 10G SFP+ SFP+ 1.2 m DAC Cable	JD096C
Cable, SFP+ 3 m 10 GbE Copper Patch Assy	487657-001
HPE BLc QSFP+ to 4x10G SFP+ AOC 10 m Opt	721073-B21
HPE BladeSystem C-CLASS 40G QSFP+ TO 4X10G SFP+ 5 m DAC splitter cable	721067-B21
HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver	455883-B21
HPE BladeSystem c-Class 10 GbE SFP+ to SFP+ 3 m Direct Attach Copper Cable	487655-B21

OS Boot Device

Description	Option Part Number
HPE NS204i-p x2 Lanes NVMe PCIe3 x8 OS Boot Device	P12965-B21

OS Compatibility

Feature	Description
Operating Systems and Virtualization Software [1]	Support for ProLiant Servers • RedHat Enterprise Linux (RHEL) **Click here for more information on RHEL**. • Windows Server
Industry Standard Compliance	• PXE Support • PCIe 3.0 Compliant • WOL Support • Microsoft Logo certifications • USB 2.0 and 3.0 Support • ACPI 2.0 Compliant

NOTE

1. Only 64-bit versions of these operating systems are supported.

Software Compatibility

- **Edgeline Component Pack**

  The HPE Edgeline Component Pack is the delivery mechanism for firmware updates on the HPE Edgeline System. Before using the system for the first time, verify that the user has the latest drivers, firmware, and system software installed.

  Click here to access the Edgeline Component Pack Update Guide for more information.

- **STK and Windows PowerShell**

  Provision 1 to many servers using the user's own scripts to discover and deploy them with STK for Windows and Linux or Scripting Tools for Windows PowerShell.

  Click here to know more about Windows PowerShell.

- **RESTful Interface Tool**

  RESTful Interface tool is a scripting tool to provision using RESTful API for iLO5 to discover and deploy servers at scale.

  Click here to know more about RESTful Interface Tool.

Useful Links

Descriptions	Direct Links
QuickSpecs	**Click here to access "QuickSpecs of HPE ProLiant e910 Server Blade".**
User and Maintenance Guide	**Click here to access "User and Maintenance Guide of HPE ProLiant e910 Server Blade.**