

Overview

HPE ProLiant e910t Server Blade

Are you wanting to move software applications and compute closer to the user? Do you need to reduce moving the vast amounts of data to a centralized data center?

The 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.

It features a rugged, compact design that is certified for extended thermal environments of 0° to 55° Celsius and is installed in the Size, Weight and Power (SWaP) optimized Edgeline EL8000t Converged Edge System. The ProLiant e910t server blade architecture is based on Intel® Xeon® SP processors to give you increased compute power and speed. The modular design of the HPE ProLiant e910t Server Blade provides a broad range of configuration choices in networking, storage and I/O for optimizing your unique edge workloads.

Enterprise Data Center Compute Capacities Now Can Be Deployed at The Edge

The ProLiant e910t Server Blade supports industry standard technology leveraging the Intel® Xeon® Scalable Processor Family, and can be configured with fast high-capacity (TB) storage to support enterprise-tier edge workloads. High performance I/O including accelerators, allow it to support the same demanding software applications run in a datacenter or cloud, but now at the edge. The best of HPE's industry standard technologies can now benefit customers at the edge for use cases in telecommunications, defense, law enforcement, disaster response etc.

Seamless Remote Manageability for Deep Edge Environments

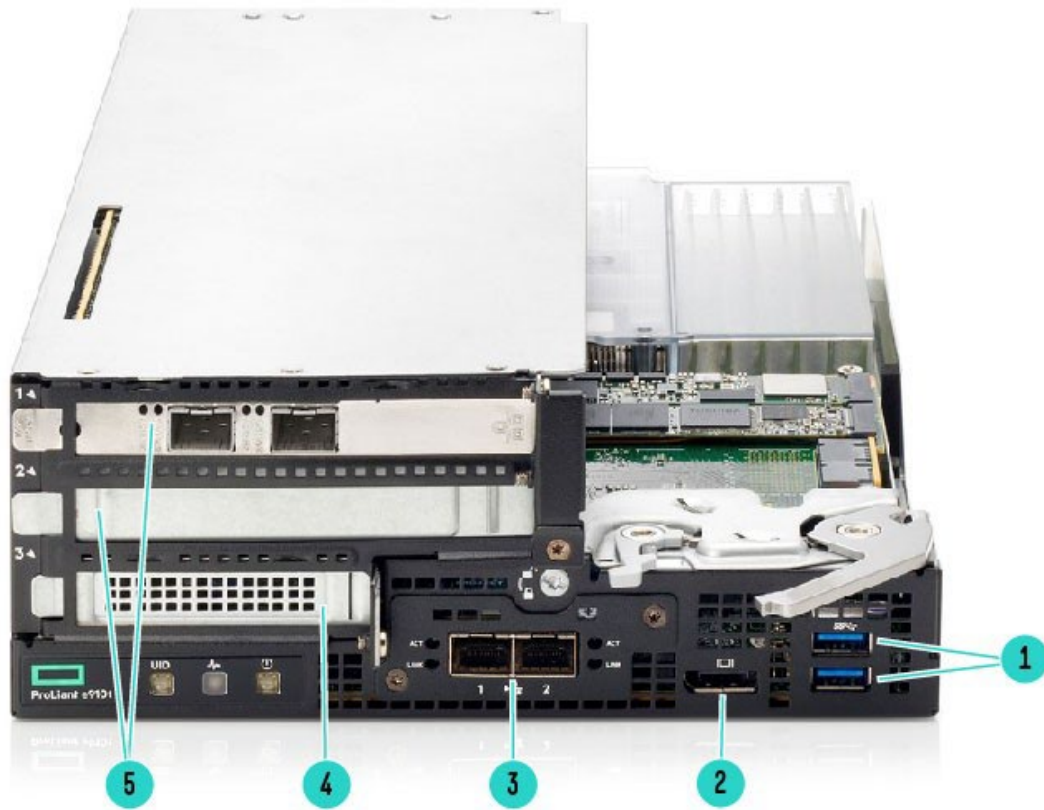
The ProLiant e910t Server Blade includes Integrated Lights-Out technology (iLO5) that provides server management capabilities and cutting edge security technologies such as Silicon Root of Trust so you can securely configure, monitor, and update your HPE servers seamlessly and from anywhere.

HPE iLO5 simplifies server setup, provides access to server health information, enables server management at scale, and improves server power and thermal control, as well as basic remote administration. The iLO5 Advanced feature provided with each ProLiant e910t blade allows automation of common tasks during each step of the server lifecycle and improved detection and enforcement of security to, increasing ROI and decreasing TCO.

Modular Configurations for Workload Optimization

The Edgeline EL8000t system provides 2 independent 2U slots for configuring ProLiant e910t 2U Server Blades.

Overview



Server Blade Components

Item	Description
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- | | |
|----|----------------------------------|
| 1. | Two (2) USB 3.0 Ports |
| 2. | One (1) Display Port |
| 3. | Network Connector (4 port QSFP+) |

Item	Description
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- | | |
|----|---|
| 4. | One (1) Half Height, Half Length PCIe Slot |
| 5. | Two (2) Full Height, Full Length PCIe Slots |



Overview

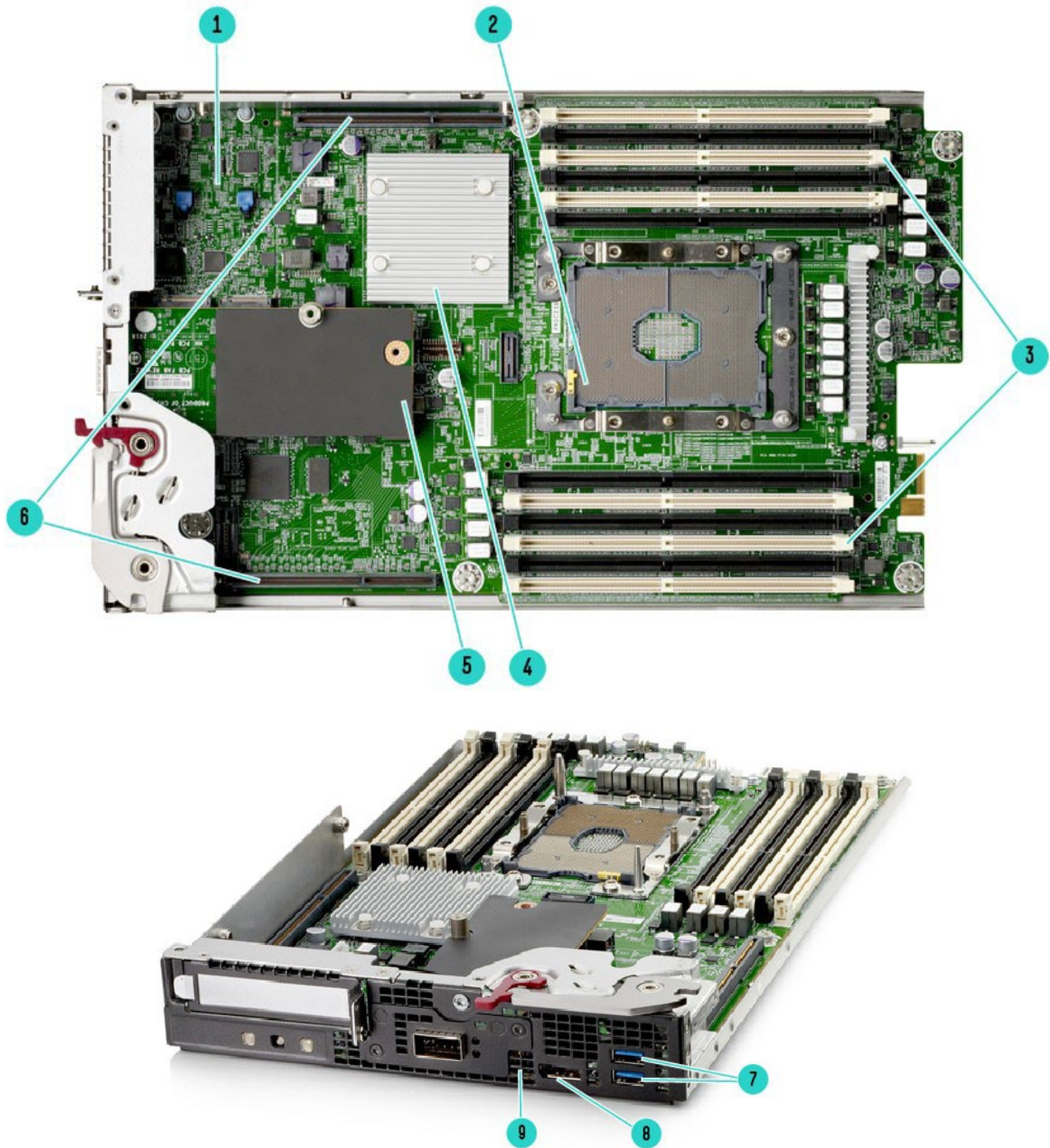


Server Blade LEDs

1. UID LED
Notes:
 - Blue = Blade id is enabled
 - Flashing Blue = Blade firmware update is in progress and/or Integrated Remote Console (IRC) is in use
 - Off = Blade id is not enabled
2. Health LED
Notes:
 - Green = Normal operation
 - Flashing amber = Degraded condition
 - Flashing red = Critical condition
 - Off = No power
3. Power LED
Notes:
 - Green = Normal operation
 - Amber = Standby operation
 - Off = No power



Overview



System Board Components

- | | |
|-------------------------|--|
| 1. M.2 SSD Slots | 6. Left (Top) and Right (Bottom) Riser Slots |
| 2. Processor Socket | 7. USB Connectors |
| 3. DIMM slots | 8. Display Port Connector |
| 4. Heatsink (chipset) | 9. System Battery |
| 5. Network Riser Option | |



Standard Features

Processor

2nd Generation Intel® Xeon® Scalable Processor Family

Intel® Xeon® SP Processor	Frequency Ghz	Cores	L3 Cache MB	Power Watts	UPI Links	DDR4 MHz	Max Memory TB
Platinum 8280L	2.7	28	38.5	205	3	2933	4.5
Platinum 8276	2.2	28	38.5	165	3	2933	1
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

Notes:

- For more information regarding Intel® Xeon® SP, please see the following URL:
<https://www.intel.com/content/www/us/en/products/processors/xeon/scalable.html>
- The ProLiant e910t 2U server is only available as a single-socket system, so UPI capability is not used
- Either the Intel Xeon 8280L or the Xeon 6240L processor is required to use the full memory capacity of the ProLiant e910.
- The UPI functionality is not available on the Intel Xeon 6212U Processor, as it is single-socket optimized.

Chipset

Intel® C624 Chipset

Notes: For more information regarding chipset, please see the following URL:

<https://www.intel.com/content/www/us/en/products/chipsets/server-chipsets/c624.html>

Graphics

Integrated Video Standard

- Video modes up to 1920 x 1200@60Hz (32 bpp)
- 16MB Video Memory

HPE iLO 5 system management memory

- 32 MB Flash
- 4 Gbit DDR 3 with ECC protection

On System Management Chipset

HPE iLO 5 ASIC

Notes: Read and learn more in the [iLO QuickSpecs](#)



Standard Features

Memory

Type	HPE Edgeline DDR4 Registered (RDIMM), Load Reduced (LRDIMM)	
Supported DIMMs	DDR4-2933	
DIMM Slots Available	12	12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel
Maximum Capacity (LRDIMM)	1.5 TB	12 x 128GB LRDIMM
Maximum Capacity (LRDIMM)	768 GB	6 x 128GB LRDIMM
Maximum Capacity (LRDIMM)	768 GB	12 x 64GB LRDIMM
Maximum Capacity (RDIMM)	384GB	12 x 32GB RDIMM

Notes:

- Rules under “Memory” section must be followed for Configuring and Mixing of DIMMs.
- Usable system memory is constrained by the configured processor type

Memory Protection

For details on the HPE Server Memory Options RAS feature, visit:

<http://www.hpe.com/docs/memory-ras-feature>.

Network

- **Intel® X722 Quad-port 10GbE (in embedded PCH)**
Accessed through the following optional network riser module options:
 - P17295-B21: HPE ProLiant e910 2p 1GbE RJ45 Network Riser
 - P17296-B21: HPE ProLiant e910 2p 10GbE SFP+ Network Riser
 - P12392-B21: HPE ProLiant e910 4x10GbE QSFP+ Module
- **Intel® I210 1GbE**
Accessed through management network port on EL8000t chassis controller module

SATA and PCIe controllers are Integrated in the Intel® Chipset

SSD Slot #	Physical Location	Technology	Bus Width	Connector Width	Form Factor	Supported Sizes
1	System Board	PCIe-3, NVMe	x1, x2	x1, x2	M.2 2280/22110	960GB 1.92TB 3.84TB
2	System Board	PCIe-3, NVMe	x1, x2	x1, x2	M.2 2280/22110	960GB 1.92TB 3.84TB
3	Expansion Option	PCIe-3, NVMe	x4	x4	M.2 2280/22110	960GB 1.92TB 3.84TB
4	Expansion Option	PCIe-3, NVMe	x4	x4	M.2 2280/22110	960GB 1.92TB 3.84TB
5	Expansion Option	PCIe-3, NVMe	x4	x4	M.2 2280/22110	960GB 1.92TB 3.84TB
6	Expansion Option	PCIe-3, NVMe	x4	x4	M.2 2280/22110	960GB 1.92TB 3.84TB



Standard Features

Maximum Internal Storage

- **M.2 22110 NVMe solid state device**
 - 15.2TB
 - 4x 3.8TB
-

Power Supply

Refer to the Edgeline EL8000t QuickSpecs

https://www.hpe.com/psnow/doc/a00073755enw?jumpid=in_lit-psnow-red

System Fans

Refer to the Edgeline EL8000t QuickSpecs

<https://h20195.www2.hpe.com/v2/getdocument.aspx?docname=a00073755enw>

Interfaces

- Server Blade Power LED/button
 - Server Blade UID LED/button
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Operating Systems and Virtualization Software

Support for ProLiant Servers

- **[RedHat Enterprise Linux \(RHEL\)](#)**
- **[Windows Server](#)**

Notes:

- Only 64-bit versions of these operating systems are supported
 - For more information on the 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 OS Support Site at <http://www.hpe.com/info/ossupport> and our driver download page which can be found from the HPE Support Center: <http://www.hpe.com/support/hpesc>
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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
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Standard Features

HPE Server UEFI ROM

Unified Extensible Firmware Interface (UEFI) is an industry standard that provides better manageability and more secured configuration than the legacy ROM while interacting with your server at boot time. The HPE ProLiant e910t Server Blades default to UEFI and does not support Legacy BIOS Boot Mode.

Notes: The UEFI System Utilities function is analogous to the HPE ROM-Based Setup Utility (RBSU) of legacy BIOS. For more information, please visit <http://www.hpe.com/servers/uefi>

UEFI enables numerous new capabilities specific to HPE ProLiant servers such as:

- Secure Boot
- Operating system specific functionality
- Support for > 2.2 TB (using GPT) boot drives
- USB 3.0 Stack
- Embedded UEFI Shell
- Mass Configuration Deployment Tool using RESTful API for iLO 5
- PXE boot support for IPv6 networks
- Boot support for option cards that only support a UEFI option ROM
- Network Stack configurations

Notes: For UEFI Boot Mode, boot environment and OS image installations should be configured properly to support UEFI.

Form Factor

HPE ProLiant e910t Server Blades plug into the HPE Edgeline EL8000t System.

Embedded Management

HPE Integrated Lights-Out Advanced (HPE iLO Advanced)

The ProLiant e910 Server Blades comes with 3 years of iLO Advanced features enabled by default. For more detail on these features: <https://psnow.ext.hpe.com/doc/PSN332279USEN.pdf>

Monitor your servers for ongoing management, service alerting, reporting and remote management with HPE iLO.

Learn more at <http://www.hpe.com/info/ilo>

UEFI

Configure and boot your servers securely with industry standard Unified Extensible Firmware Interface (UEFI).

Learn more at <http://www.hpe.com/servers/uefi>

RESTful API

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.

Learn more at <http://www.hpe.com/info/restfulapi>

Notes: Full REST API is available when the server is installed in a HPE Edgeline System

Intelligent Provisioning

Hassle free server and OS provisioning for 1 or few servers with Intelligent Provisioning.

Learn more at <http://www.hpe.com/servers/intelligentprovisioning>



Standard Features

Server Utilities

Edgeline Component Pack

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

For more information, see the Edgeline Component Pack Update Guide on the Hewlett Packard Enterprise website:

<http://www.hpe.com/info/edgeline-docs>

Notes: The Edgeline Component Pack is only supported when the server is installed in a HPE Edgeline System

Scripting Tool Kit and Windows PowerShell

Provision 1 to many servers using your own scripts to discover and deploy them with Scripting Tool Kit (STK) for Windows and Linux or Scripting Tools for Windows PowerShell. <http://www.hpe.com/servers/powershell>.

Notes: This Feature will be available when the server is installed in a HPE Edgeline System.

RESTful Interface Tool

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

Learn more at <http://www.hpe.com/info/resttool>

Notes: This Feature will be available when the server is installed in a HPE Edgeline System.

Security

- Serial interface control
- Administrator's password
- Power-on password
- TPM2.0
- UEFI
- iLO 5 has 12 customizable user accounts and SSL encryption
- iLO 5 can be disabled via a Global Setting
- iLO Advanced supports directory services integration

HPE Trusted Platform Module

HPE Trusted Platform Module 2.0 is embedded on the Server Blade and can be enabled and disabled using the BIOS.

Notes:

- The TPM (Trusted Platform Module) is a microcontroller chip that can securely store artifacts used to authenticate the server platform. These artifacts can include passwords, certificates and encryption keys. Windows® BitLocker™ Drive Encryption (BitLocker) is a data protection feature available in Windows Server® 2008, 2012/2012 R2. BitLocker leverages the enhanced security capabilities of a Trusted Platform Module (TPM) version 2.0. The TPM works with BitLocker to help protect user data and to ensure that a server running Windows Server has not been tampered with while the system was offline. For more information about TPM, including a white paper, go to: <https://www.hpe.com/h20195/v2/gethtml.aspx?docname=c04939549>
 - ProLiant OS pre-installed units will come with the partition required for TPM deployment.
 - The TPM key is unique to every TPM deployed server and must be retained. Misplacing or losing the key could result in data loss.
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Service and Support

HPE Pointnext - Service and Support

Get the most from your HPE Products. Get the expertise you need at every step of your IT journey with **HPE Pointnext Services**. We help you lower your risks and overall costs using automation and methodologies that have been tested and refined by HPE experts through thousands of deployments globally. HPE Pointnext **Advisory Services** focus on your business outcomes and goals, partnering with you to design your transformation and build a roadmap tuned to your unique challenges. Our **Professional** and **Operational Services** can be leveraged to speed up time-to-production, boost performance and accelerate your business. HPE Pointnext specializes in flawless and on-time implementation, on-budget execution, and creative configurations that get the most out of software and hardware alike.

Consume IT on your terms

HPE GreenLake brings the cloud experience directly to your apps and data wherever they are—the edge, colocations, or your data center. It delivers cloud services for on-premises IT infrastructure specifically tailored to your most demanding workloads. With a pay-per-use, scalable, point-and-click self-service experience that is managed for you, HPE GreenLake accelerates digital transformation in a distributed, edge-to-cloud world.

- Get faster time to market
- Save on TCO, align costs to business
- Scale quickly, meet unpredictable demand
- Simplify IT operations across your data centers and clouds

Managed services to run your IT operations

HPE GreenLake Management Services provides services that monitor, operate, and optimize your infrastructure and applications, delivered consistently and globally to give you unified control and let you focus on innovation.

Free up resources with Operational Services from HPE Pointnext Services

HPE delivers services for IT by using proven best practices as well as automation and methodologies that have been tested and refined by HPE experts and artificial intelligence through thousands of deployments globally. Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller. Services are quoted using Hewlett Packard Enterprise order configuration tools.

HPE Pointnext Tech Care

HPE Pointnext Tech Care is the new operational service experience for HPE products. Tech Care goes beyond traditional support by providing access to product specific experts, an AI driven digital experience, and general technical guidance to not only reduce risk but constantly search for ways to do things better. HPE Pointnext Tech Care has been reimagined from the ground up to support a customer-centric, AI driven, and digitally enabled customer experience to move your business forward. HPE Pointnext Tech Care is available in three response levels. Basic, which provides 9x5 business hour availability and a 2 hour response time. Essential which provides a 15 minute response time 24x7 for most enterprise level customers, and Critical which includes a 6 hour repair commitment where available and outage management response for severity 1 incidents.

<https://www.hpe.com/services/techcare>

HPE Pointnext Complete Care

HPE Pointnext Complete Care is a modular, edge-to-cloud IT environment service that provides a holistic approach to optimizing your entire IT environment and achieving agreed upon IT outcomes and business goals through a personalized and customer-centric experience. All delivered by an assigned team of HPE Pointnext Services experts. HPE Pointnext Complete Care provides:

- A complete coverage approach -- edge to cloud
- An assigned HPE team
- Modular and fully personalized engagement
- Enhanced Incident Management experience with priority access
- Digitally enabled and AI driven customer experience

<https://www.hpe.com/services/completechcare>



Service and Support

Other related services from HPE Pointnext

HPE Installation Service for HPE Edgeline Systems

HPE Installation Service for HPE Edgeline Systems offers hardware installation of your new Edgeline System. It is part of a suite of HPE deployment services that are designed to give you the peace of mind that comes from knowing your HPE products have been installed by Hewlett Packard Enterprise authorized service specialist in accordance with the product's documentation.

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00062322enw>

HPE Installation and Startup Service for HPE Edgeline Systems

HPE Installation and Startup of HPE Edgeline Systems delivers installation of your new Edgeline System, installation of one eligible operating system (Windows® or Linux), and the basic configuration of this operating system network parameters to establish network connectivity. This service will assist you in bringing your new HPE Edgeline System into operation and make it remotely accessible in a timely and professional manner.

<https://www.hpe.com/h20195/v2/Getdocument.aspx?docname=a00062211enw>

HPE Service Credits

Offers flexible services and technical skills to meet your IT demands as your business evolves. With a menu of services, you can access additional resources and specialist skills to help you maintain peak performance of your IT. HPE Service Credits help you proactively respond to your dynamic IT and business needs.

<https://www.hpe.com/psnow/doc/4aa4-3393enw>

HPE Education Services

Provides comprehensive training designed to expand the skills of your IT staff and keep them up to speed with the latest technologies.

Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

Warranty

This product is covered by a global limited warranty and supported by Hewlett Packard Enterprise Services and a worldwide network of HPE Authorized Channel Partners resellers. Hardware diagnostic support and repair is available for three years from date of purchase. Support for software and initial setup is available for 90 days from date of purchase. Enhancements to warranty services are available through HPE Pointnext operational services or customized service agreements. Hard drives have either a one year or three year warranty; refer to the specific hard drive QuickSpecs for details.

Notes: Server Warranty includes 3-Year Parts, 3-Year Labor, 3-Year Onsite support with next business day response. Warranty repairs may be accomplished through the use of Customer Self Repair (CSR) parts. These parts fall into two categories: 1) Optional CSR parts are designed for easy replacement but may involve added complexity. Customers may choose to have Hewlett Packard Enterprise replace Optional CSR parts at no charge. 2) No CSR parts are also designed for requiring a Hewlett Packard Enterprise authorized service provider replace the part. Additional information regarding worldwide limited warranty and technical support is available at: <http://h20564.www2.hpe.com/hpsc/wc/public/home>

Parts and Materials

Hewlett Packard Enterprise will provide HPE-supported replacement parts and materials necessary to maintain the covered hardware product in operating condition, including parts and materials for available and recommended engineering improvements.

Parts and components that have reached their maximum supported lifetime and/or the maximum usage limitations as set forth in the manufacturer's operating manual, product QuickSpecs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

The defective media retention service feature option applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.



Additional Options

This section lists some of the steps required to configure a Factory Integrated Model. To ensure only valid configurations are ordered, Hewlett Packard Enterprise recommends the use of a Hewlett Packard Enterprise approved configurator. Contact your local sales representative for information on configurable product offerings and requirements

If you want to configure a server blade only, proceed to Step 2

Step 1: Base Configuration (Choose System)

HPE Edgeline System

HPE Edgeline EL8000t 2U Configure-to-order 2.0 Front Cabling Chassis P41382-B21

HPE Edgeline EL8000t Chassis Controller P27143-B21

Notes:

- Refer to the [Edgeline EL8000t documentation](https://h20195.www2.hp.com/v2/getdocument.aspx?docname=a00067727enw) for details on how to configure the chassis <https://h20195.www2.hp.com/v2/getdocument.aspx?docname=a00067727enw>
- The previous version of the chassis (P27063-B21) is fully compatible with existing e910 blades.
- Functional systems require at least 1 power supply to be configured, with 2 power supplies recommended for redundancy
- A chassis controller should be added for each blade that requires iLO networking capabilities, as this device functions as both a chassis controller and a provides a port for iLO.

Step 2: Select ProLiant Server Blade

HPE ProLiant Server Blade (Min:1, Max:2)

Notes:

- Each blade operates independently
- An iLO Advanced license with 3 years of support is provided by default with each e910t blade (1 per blade). This option cannot be de-selected.

Step 3: Choose Required Options (per blade)

Processor Option (Min: 1, Max: 1)

Intel Xeon-Platinum 8280M (2.7GHz/28-core/205W) Processor Kit for HPE ProLiant e910	P12398-B21
Intel Xeon-Gold 6212U (2.4GHz/24-core/165W) Processor Kit for HPE ProLiant e910	P12395-B21
Intel Xeon-Gold 6230N (2.3GHz/20-core/125W) FIO Processor Kit for HPE ProLiant e910	P17292-B21
Intel Xeon-Gold 6244 (3.6GHz/8-core/150W) FIO Processor Kit for HPE ProLiant e910	P12396-B21
Intel Xeon-Gold 6254 (3.1GHz/18-core/200W) FIO Processor Kit for HPE ProLiant e910	P12397-B21
Intel Xeon-Silver 4210 (2.2GHz/10-core/85W) FIO Processor Kit for HPE ProLiant e910	P12399-B21
Intel Xeon-Platinum 8280L (2.7GHz/28-core/205W) Processor Kit for HPE Edgeline	P28914-B21
Intel Xeon-Platinum 8276 (2.2GHz/28-core/165W) Processor Kit for HPE Edgeline	P25811-B21
Intel Xeon-Gold 5217 (3.0GHz/8-core/115W) Processor Kit for HPE Edgeline	P25813-B21
Intel Xeon-Gold 5218R (2.1GHz/20-core/125W) Processor Kit for HPE Edgeline	P28916-B21
Intel Xeon-Gold 5220R (2.2GHz/24-core/150W) Processor Kit for HPE Edgeline	P28917-B21
Intel Xeon-Gold 6208U (2.9GHz/16-core/150W) Processor Kit for HPE Edgeline	P28910-B21
Intel Xeon-Gold 6230R (2.1GHz/26-core/150W) Processor Kit for HPE Edgeline	P28918-B21
Intel Xeon-Gold 6238R (2.2GHz/28-core/165W) Processor Kit for HPE Edgeline	P28919-B21
Intel Xeon-Gold 6240L (2.6GHz/18-core/150W) Processor Kit for HPE Edgeline	P28911-B21



Additional Options

Intel Xeon-Gold 6252 (2.1GHz/24-core/150W) Processor Kit for HPE Edgeline	P28912-B21
Intel Xeon-Gold 6258R (2.7GHz/28-core/205W) Processor Kit for HPE Edgeline	P28920-B21
Intel Xeon-Silver 4210R (2.4GHz/10-core/100W) Processor Kit for HPE Edgeline	P28915-B21
Intel Xeon-Silver 4214 (2.2GHz/12-core/85W) Processor Kit for HPE Edgeline	P28908-B21

Notes:

- The ProLiant e910t 2U server is only available as a single-socket system (1 processor per blade).
- Either the Intel Xeon 8280L or the Xeon 6240L processor is required to use the full memory capacity (1.5TB) of the ProLiant e910.

Memory Options (Min: 1, Max: 12)

HPE Edgeline 8GB (1x8GB) Single Rank x8 DDR4-2933 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

Notes:

- Mixing of RDIMMs and LRDIMMs within the same blade is not supported
- Mixing of different LRDIMM capacity kits is not supported (i.e. 64GB & 128GB)
- Either the Intel Xeon 8280L or the Xeon 6240L processor is required to use the full memory capacity of the ProLiant e910

Riser options

Left Riser Options (Min: 1, Max: 1)

Notes: The Left Riser option is required on each server blade

Notes: This option (P22496-B21) supports One (1) PCIe Gen3 FHFL x16 card and One (1) PCIe Gen3 HHHL x8 card

Notes: This option (P27066-B21) supports Two (2) PCIe Gen3 FHFL x8 cards and One (1) PCIe Gen3 HHHL x8 card.

Right Riser Options (Min: 0, Max: 1)

HPE ProLiant e910 4-slot NVMe M.2 Enablement Kit	P12386-B21
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Notes: The M.2 Enablement Kit (P12386-B21) supports four (4) M.2 NVMe SSD slots, which can fit 2280 or 22110 sizes. There are no PCIe I/O add-in card slots available with this riser option.

Solid State Drives

Installed on e910t System Board (Min: 0, Max: 4)

HPE Edgeline 960GB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49021-B21
HPE Edgeline 1.92TB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49023-B21
HPE Edgeline 3.84TB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49025-B21

Installed on Right Riser (Min: 0, Max: 4)

HPE Edgeline 960GB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49021-B21
HPE Edgeline 1.92TB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49023-B21
HPE Edgeline 3.84TB NVMe Gen4 Mainstream Performance Mixed Use M.2 22110 Extended Temp PM9A3 SSD	P49025-B21

Notes: The P12386-B21: HPE e910 4 Slot NVMe M.2 Enablement Kit provides 4 M.2 slots that can fit 2280 and 22110 SSDs. Only NVMe SSDs are supported.



Additional Options

Network Riser Kits (Min: 1, Max: 1)

Notes: The network riser connects the embedded Intel X722 quad-port 10GbE NIC on each e910t blade to the blade faceplate

HPE ProLiant e910 4x10GbE QSFP+ Module P12392-B21

Notes: All 4 10GbE ports are presented on the faceplate of the respective blade.

HPE ProLiant e910 2-port 1GbE RJ45 Module P17295-B21

HPE ProLiant e910 2-port 10GbE SFP+ Module P17296-B21

Notes: The RJ45 and SFP+ network riser modules connect 2 10GbE ports to the blade faceplate. The remaining 2 ports from the embedded NIC are unused.

Step 4: Choose Additional Options

Choose additional options for Factory Integration from sections below

PCIe Slot Options

Notes: Ensure that the riser type configured in the e910t blade can fit the selected PCIe add-in card option

Networking

HPE Ethernet 1Gb 4-port BASE-T I350-T4V2 Adapter 811546-B21

Accelerators and associated accessories

NVIDIA T4 16GB Computational Accelerator for HPE ROW29C

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

Notes: If the Pensando DSP DSC-25 (P26966-B21) is selected, an accompanying RTU license must be ordered.

HPE ProLiant e910 CPU 8-pin Cable Kit P12393-B21

Notes: This cable must be selected when HPE NVIDIA A100 40GB (R6B53A) is selected.

Supported Cables

Notes: Optional cables for connection to either the QSFP+/SFP+/RJ45 network riser ports on the blade faceplate

HPE FlexNetwork X240 40G QSFP+ QSFP+ 1m Direct Attach Copper Cable JG326A

HPE FlexNetwork X240 40G QSFP+ QSFP+ 3m Direct Attach Copper Cable JG327A

HPE FlexNetwork X240 40G QSFP+ QSFP+ 5m Direct Attach Copper Cable JG328A

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 1m Direct Attach Copper Splitter Cable JG329A

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 5m Direct Attach Copper Splitter Cable JG331A

HPE BladeSystem c-Class 10Gb SFP+ SR Transceiver 455883-B21

Aruba 1G SFP RJ45 T 100m Cat5e Transceiver J8177D

HPE FlexNetwork X240 10G SFP+ to SFP+ 1.2m Direct Attach Copper Cable JD096C

HPE BladeSystem c-Class 10GbE SFP+ to SFP+ 3m Direct Attach Copper Cable 487655-B21

HPE Edgeline 300V 3m DC Power Cable Kit P27698-B21

HPE FlexNetwork X240 40G QSFP+ to 4x10G SFP+ 3m Direct Attach Copper Splitter Cable JG330A

HPE 100Gb QSFP28 to QSFP28 3m Direct Attach Copper Cable 845406-B21



Technical Specifications

Physical Dimensions

Server Cartridge

- **Dimensions (H x W x D):** 3.2 x 8.4 x 14.4in (8.13 x 21.34x 36.58cm)
 - **Typical Power:** 300W per U
 - **Max Power:** 400W per U
-

System Inlet Temperature

- **Extended Operating**
HPE Edgeline EL8000t with ProLiant e910t Server Blades: Depending on hardware configuration, the supported system inlet range can be extended up to 55°C. Compliance to ASHRAE A3 and A4 standards is also available. The approved hardware configurations for this system are listed in the Edgeline system documentation.
 - **Standard Operating**
HPE Edgeline EL8000t Chassis with ProLiant e910t Server Blades: Typical range is 10° to 35°C (50° to 95°F) with altitude derating.
-

Emissions Classification (EMC)

- **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

Notes: Product conformance to cited product specifications is based on sample (type) testing, evaluation, or assessment. This product or family of products is eligible to bear the appropriate compliance logos and statements.

Environment-friendly Products and Approach - End-of-life Management and Recycling

Hewlett Packard Enterprise offers end-of-life **product return, trade-in, and recycling programs** in many geographic areas, for our products. Products returned to Hewlett Packard Enterprise will be recycled, recovered or disposed of in a responsible manner.

The EU WEEE Directive (2012/19/EU) requires manufacturers to provide treatment information for each product type for use by treatment facilities. This information (product disassembly instructions) is posted on the **Hewlett Packard Enterprise web site**. These instructions may be used by recyclers and other WEEE treatment facilities as well as Hewlett Packard Enterprise OEM customers who integrate and re-sell Hewlett Packard Enterprise equipment.



Summary of Changes

Date	Version History	Action	Description of Change
05-Jun-2023	Version 9	Changed	Standard Features and Configuration Information sections were updated. GPU and Storage.
05-Jul-2022	Version 8	Changed	Standard Features section was updated
15-Sep-2021	Version 7	Changed	Configuration Information and Additional Options sections were updated Service and Support Pointnext Tech Care and Complete Care information added
07-Sep-2021	Version 6	Changed	Standard Features, Configuration Information and Additional Options sections were updated Service and Support Pointnext Tech Care information added
02-Aug-2021	Version 5	Changed	Configuration Information Service and Support and Additional Options sections were updated.
10-May-2021	Version 4	Changed	Standard Features and Additional Options sections were updated
15-Mar-2021	Version 3	Changed	Overview, Standard Features and Configuration Information sections were updated
03-Aug-2020	Version 2	Changed	Overview, Standard Features, Configuration Information, and Technical Specifications sections were updated.
01-Jun-2020	Version 1	New	New QuickSpecs



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