

### 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.

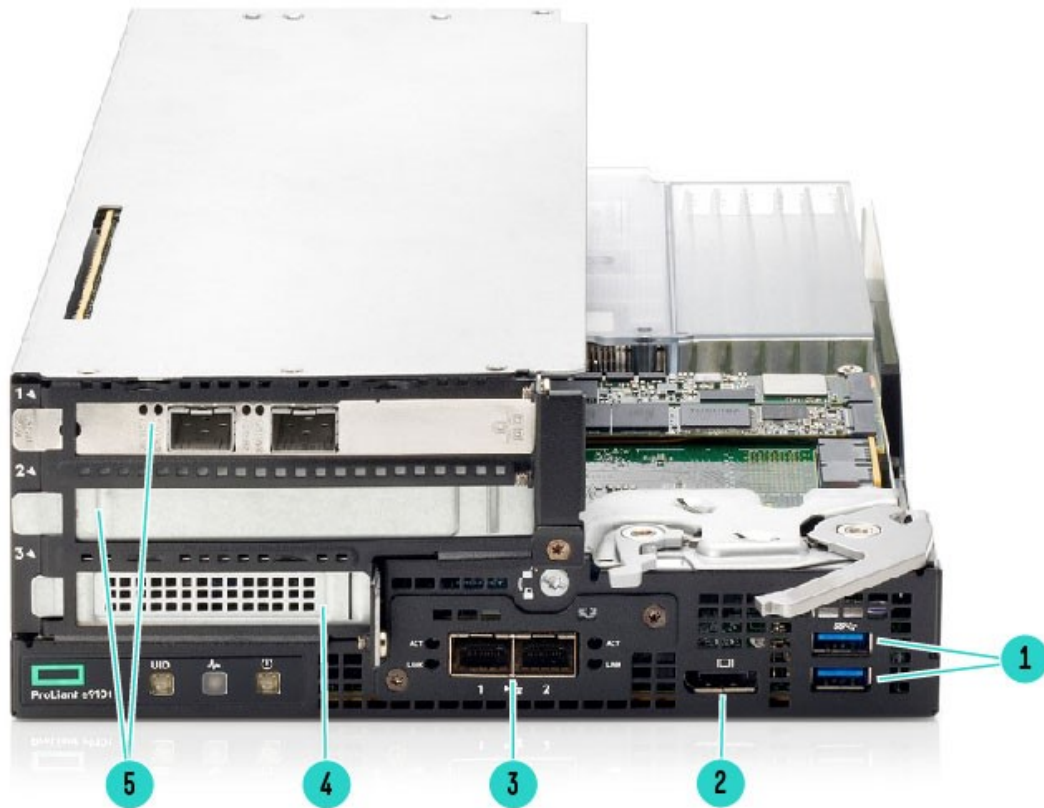
HPE iLO5 simplifies server setup, provides access to server health information, enables server management at scale, and improves server power and thermal control, as well as basic remote administration. The iLO5 Advanced feature provided with each ProLiant e910t blade allows automation of common tasks 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.

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## Overview



### Server Blade Components

Item	Description
1.	Two (2) USB 3.0 Ports
2.	One (1) Display Port
3.	Network Connector (4 port QSFP+)
4.	One (1) Half Height, Half Length PCIe Slot
5.	Two (2) Full Height, Full Length PCIe Slots



## Overview

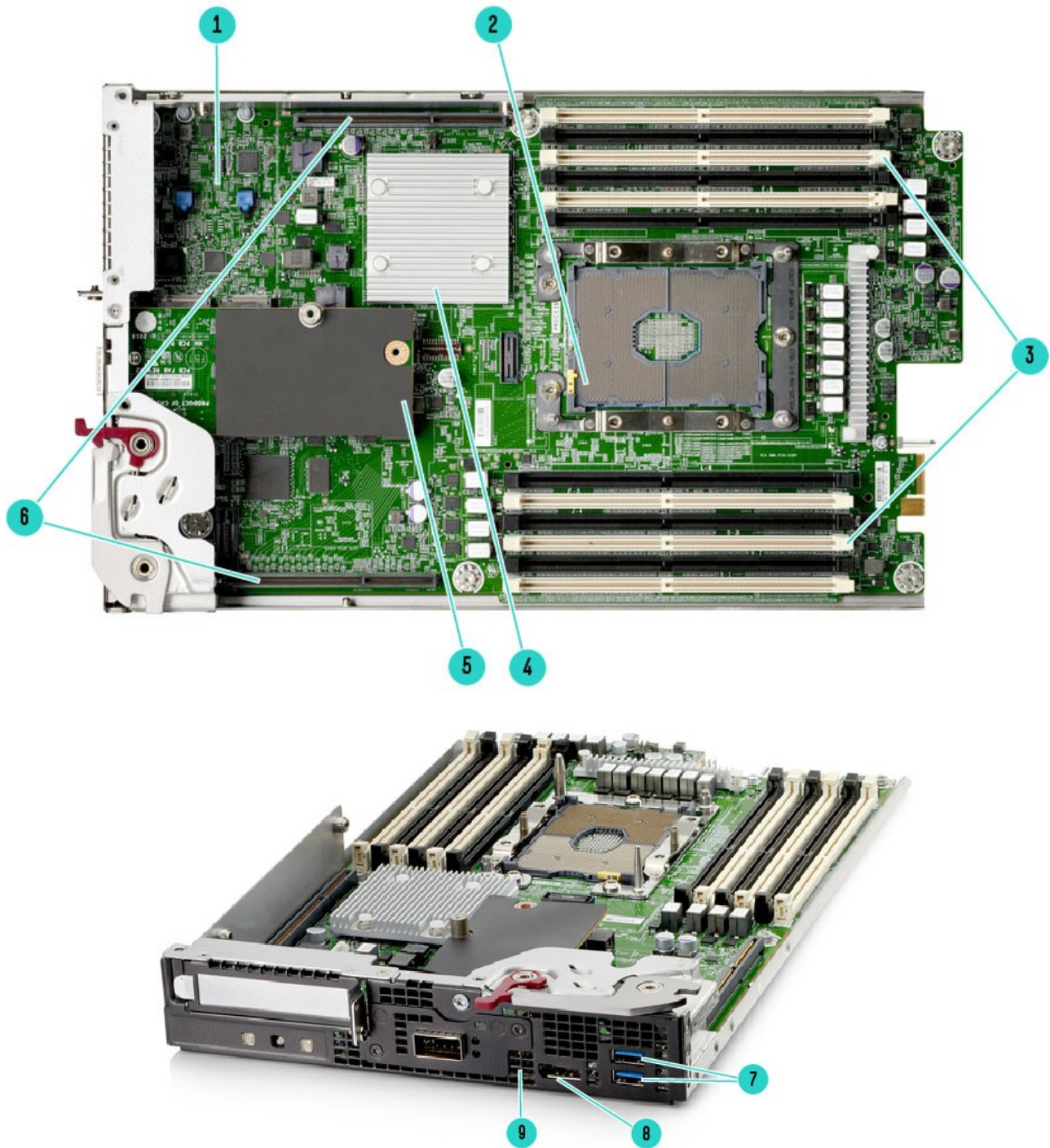


### Server Blade LEDs

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

<b>Type</b>	HPE Edgeline DDR4 Registered (RDIMM), Load Reduced (LRDIMM)	
<b>Supported DIMMs</b>	DDR4-2933	
<b>DIMM Slots Available</b>	12	12 DIMM slots per processor, 6 channels per processor, 2 DIMMs per channel
<b>Maximum Capacity (LRDIMM)</b>	1.5 TB	12 x 128GB LRDIMM
<b>Maximum Capacity (LRDIMM)</b>	768 GB	6 x 128GB LRDIMM
<b>Maximum Capacity (LRDIMM)</b>	768 GB	12 x 64GB LRDIMM
<b>Maximum Capacity (RDIMM)</b>	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 10GbE 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	SATA-3, PCIe-3	x1, x2	x1, x2	M.2 2242/2280	120GB 240GB 256GB 512GB 1TB 2.048TB
2	System Board	SATA-3, PCIe-3	x1, x2	x1, x2	M.2 2242/2280	120GB 240GB 256GB 512GB 1TB 2.048TB
3	Expansion Option	PCIe-3, NVMe	x4	x4	M.2 2280/22110	256GB 512GB 1TB 2.048TB 960GB 1.92TB 3.84TB



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## Standard Features

### Maximum Internal Storage

- **M.2 2242 SATA solid state device**
    - 480GB
    - 2x 240 GB
  - **M.2 2280 NVMe solid state devices**
    - 11.5TB
    - 6x 1.92TB
  - **M.2 22110 NVMe solid state device**
    - 15.2TB
    - 4x 3.8TB
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### Power Supply

Refer to the Edgeline EL8000t QuickSpecs

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

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### System Fans

Refer to the Edgeline EL8000t QuickSpecs

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

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### 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 \(RHEL\) v7.6 and v8.0](#)
- [Windows Server 2016 and 2019](#)

#### 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.

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### Form Factor

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

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### 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>

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### UEFI

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

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

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### 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

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### 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>

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## 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.

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### 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

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### 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

### Achieve maximum return from your IT investment

Get the expertise you need at every step of your IT journey with **HPE Pointnext services and support**. We help you lower your risks and costs using proven best practices, automation and methodologies that have been tested and refined by Hewlett Packard Enterprise experts through thousands of deployments globally. With **Advisory Services**, we 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.

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### Consume IT on your terms

**HPE GreenLake Flex Capacity** combines the simplicity, agility, and economics of public cloud with the security and performance benefits of on-premises IT. You determine your own “Right Mix” of Hybrid IT and workload placement without having to use.

With its agile pay-per-use service, HPE GreenLake Flex Capacity can help your IT organization:

- Avoid IT expenses stemming from overprovisioning
  - Improve time to market by maintaining a safe buffer of capacity, ready for use when you need it
  - Keep capacity ahead of demand with regular monitoring—and a simple change order to replenish
  - Pay for only the capacity used, not the capacity deployed
  - Reduce IT risk with tailored support
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### Connect your devices

Unlock all of the benefits of your technology investment by connecting your products to Hewlett Packard Enterprise. Reduce down time, increase diagnostic accuracy and have a single consolidated view of your environment. By connecting, you will receive 24x7 monitoring, pre-failure alerts, automatic call logging, and automatic parts dispatch. HPE Proactive Care Service and HPE Datacenter Care Service customers will also benefit from proactive activities to help prevent issues and increase optimization. All of these benefits are already available to you with your server storage and networking products, securely connected to HPE support. Learn more about getting connected at <http://www.hpe.com/services/getconnected>

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### Free up resources with Operational Services from HPE Pointnext

Choose from the recommended services for customers purchasing from Hewlett Packard Enterprise or an authorized reseller are quoted using Hewlett Packard Enterprise order configuration tools.

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### HPE Datacenter Care

Helps customers to address the pressing needs of IT today and smoothly transform to a more agile cloud-like IT operations model. We help run and monitor your IT by offloading the day to day routine tasks, helping customers be more predictive and proactive, and saving time with one place to call with for all of their IT. Datacenter Care is available as both tailored statement of work and as a packaged service for 3, 4, and 5 year terms.

Partner with an assigned account team backed by local and global experts, access HPE enhanced call experience with priority access, use specialized support for complex, technologies, choose hardware and software support for your devices, implement proactive monitoring to stay ahead of issues, and access HPE IT best practices and IP. HPE Datacenter Care advantage options are available to add to your agreement to give you specialized expertise for performance, security, back up analysis, and much more.

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## Service and Support

### **HPE Proactive Care**

Gives customers an enhanced call experience. When your products are connected to HPE, Proactive Care helps prevent problems and maintains IT stability by utilizing personalized proactive reports with recommendations and advice.

HPE Proactive Care is available in 3, 4 and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). This Service combines both reactive support when there is a problem with an enhanced call experience and start to finish case management with proactive reporting and advice. This service also includes collaborative software support for Independent Software Vendors (ISVs), (Red Hat, VMWare, Microsoft, etc.).

<https://www.hpe.com/h20195/v2/GetPDF.aspx/4AA3-8855ENW.pdf>

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### **HPE Proactive Care Advanced**

Incorporates all the deliverables of HPE Proactive Care plus includes personalized support from a local, assigned Account Support Manager who will share best practice advice and personalized recommendations designed to help improve availability and performance to help increase stability and reduce unplanned downtime. Leverage your system's ability to connect to HPE for pre-failure alerts, automatic call logging and parts dispatch. For business critical incidents, Proactive Care Advanced offers critical event management to help reduce mean time to resolution. HPE Service Credits are included to redeem for technical and operational services. HPE Proactive Care Advanced is offered in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR).

<https://www.hpe.com/h20195/v2/getdocument.aspx?docname=4AA5-3259ENW>

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### **HPE Foundation Care**

**Notes:** Choose the response level that meets your needs)

HPE Foundation Care helps when there is a problem and is available in 3, 4, and 5 year terms with a choice of response levels: Next Business day (NBD), 24x7 with a 4 hour response, and 24x7 with 6 hour call to repair (CTR). Note that Call-To-Repair Service connects you to HPE 24 hours a day, seven days a week for assistance on resolving issues -this includes our highest level commitment to repair hardware within six hours after opening your case and respond to software questions within two hours. In addition, Collaborative software support is included and provides troubleshooting assistance on industry leading software running on your server. Simplify your support experience and make HPE your first call to help resolve hardware or software problems.

<https://www.hpe.com/h20195/V2/GetDocument.aspx?docname=4AA4-8876ENW&cc=us&lc=en>

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## **Other related services from HPE Pointnext**

### **HPE Server Hardware Installation**

Provides for the basic 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**

Provides for the installation of your new Edgeline System. 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. The HPE service delivery technician will connect the product to the network as appropriate and enable remote support to allow for automatic case creation for hardware failures. Installation and start up services also includes the installation of one supported operating system type (Windows® or Linux).

<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.



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## Service and Support

### 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.

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### 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.hp.com/hpsc/wc/public/home>

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### 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.

Defective Media Retention is an option available with HPE Datacenter Care, HPE Proactive Care, Proactive Care Advanced, and HPE Foundation Care and applies only to Disk or eligible SSD/Flash Drives replaced by Hewlett Packard Enterprise due to malfunction.

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## Configuration Information

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 Front Cabling Chassis P27063-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>
- 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 provides a port for iLO.

### Step 2: Select ProLiant Server Blade

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

HPE ProLiant e910t 2U Node Configure-to-order Blade Server P27064-B21

#### 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)

### 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



## Configuration Information

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
HPE Edgeline 128GB (1x128GB) Octal Rank x4 DDR4-2933 CAS-21-21-21 Load Reduced Memory Kit	P12404-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

HPE ProLiant e910t x16 FHFL/x16 HHHL Riser Kit	P22496-B21
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**Notes:** This option (P22496-B21) supports One (1) PCIe Gen3 FHFL x16 card and One (1) PCIe Gen3 HHHL x8 card

HPE ProLiant e910t x16/x16 FHFL/x16 HHHL Riser Kit	P27066-B21
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**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: 1, Max: 2)

**Notes:** The system board has two (2) M.2 slots which can accept SATA or NVMe SSDs limited to 2242 or 2280 sizes. These slots do not support 22110 size SSDs.

HPE 120GB SATA M.2 2242 Solid State Drive Field Upgradable Kit	866842-B21
HPE 240GB SATA M.2 2242 Solid State Drive Field Upgradable Kit	866844-B21
HPE 256GB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880262-B21
HPE 512GB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880264-B21
HPE 1TB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880266-B21
HPE Edgeline 2TB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	P00375-B21





## Configuration Information

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

HPE 256GB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880262-B21
HPE 512GB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880264-B21
HPE 1TB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	880266-B21
HPE Edgeline 2TB NVMe x4 Lanes Read Intensive M.2 2280 1yr Wty Extended Temperature SSD	P00375-B21
HPE Edgeline 960GB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Extended Temperature SSD	P05892-B21
HPE Edgeline 1.92TB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Extended Temperature SSD	P05896-B21
HPE Edgeline 3.84TB NVMe x4 Lanes Mixed Use M.2 22110 3yr Wty Extended Temperature SSD	P05900-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.

### 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
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**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



## Additional Options

### 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 10/25Gb 2-port SFP28 XXV710-DA2 Adapter 870825-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.

NVIDIA A100 40GB PCIe Computational Accelerator for HPE R6B53A

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.
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#### 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.

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#### 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.

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## Summary of Changes

<b>Date</b>	<b>Version History</b>	<b>Action</b>	<b>Description of Change</b>
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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