Hewlett Packard Enterprise

# HPE EDGELINE EL4000 CONVERGED EDGE SYSTEM

## Edgeline Systems

## WHAT'S NEW

- Provides legacy manufacturing integration for predictive maintenance.
- Delivers real-time analysis and condition monitoring.
- Permits real-time monitoring and control.
- Facilitates data management and video analytics at the edge.
- Aids asset monitoring and management.
- Enables the intelligent edge workspace.

## OVERVIEW

What's common between the Enterprise Edge, Media Edge and Industrial IoT Edge?

They all run on the HPE industry-leading portfolio of Converged Edge Systems. The HPE Edgeline EL4000 Converged Edge System, coupled with Citrix technology, is a perfect enterprise or SMB solution for delivering simple, smart, dense and secure desktops or applications, from anywhere - to any device. Multiple system operators (MSO) and over-the-top (OTT) providers love the ability to cache, rapidly process and

easily manage video, audio and other rich media in one converged system. Doing all of this at the edge means huge networking cost savings and a superior consumer viewing experience. Rugged HPE Edgeline systems integrated with precision data capture or control, enterprise-grade security, systems management, and blazingly fast storage are also the ideal choice for harsh industrial IoT environments. Break cloud vendor lock-in and enable true edge analytics through three points of convergence in one box.

## FEATURES

### Delivers Unprecedented Deep Edge Compute and High Capacity Storage, Based on Open Standards

Traditional data center or cloud solutions for IoT requires data to be transferred from the edge – exposing them to potential issues of latency, bandwidth, cost, security, duplication, corruption and compliance. The HPE Edgeline EL4000 Converged Edge System eliminates these risks.

The HPE Edgeline EL4000 can acquire data, analyze it on an industry-standard x86 deep compute platform, drive high-performance displays for operators, and initiate control actions in real time, at the edge, removing transfer issues to result in faster insights and business agility.

It also runs unmodified enterprise-class analytics software such as HPE Vertica, and each server is engineered to deliver high performance. It can ingest, repair and load millions of smart meter datasets per second. (the equivalent performance of a typical 2-processor rack server.)

The slim, 1U form factor can be configured with a combination of one to four HPE ProLiant m510 (Intel® Xeon® D, 8 or 16 core) or HPE ProLiant m710x (Intel® Xeon® E3 – 4 core with workstation-class GPU) compute nodes and now HPE ProLiant m750 (Intel Xeon E-2286M with 8 cores).

Solid State Drive (SSD) options in the M.2 form factor with different interface types (SATA or NVMe), can also be selected to help deliver the perfect balance between cost efficiency and extreme storage performance.

### Delivers Unique Integration of Data Acquisition, Measurement & Control, Based on Open Standards

The I/O capabilities of HPE Edgeline EL4000 Converged Edge System is built on open industry standards such as PCI Express and PXIe. Select models also include a wide variety of option I/O cards to support 10GbE to 40GbE, InfiniBand, or Fibre Channel.

Precision data capture and control capabilities are achieved through open PXI standards. When coupled with automated machine learning, new horizons for equipment monitoring and management, predictive analytics and augmented reality for manual-less servicing are opened - key for Smart Factories.

The HPE Edgeline EL4000 also supports I/O expansion using up to four PCIe cards (one per compute node) or up to four PXIe modules (one to four assignable to any compute node). A choice of two switched 10 Gb (SFP+) or two pass-through 4x10 Gb (QSFP+) network uplink ports is also available.

## Delivers Data Center Class Security, Device and Remote Systems Management

The HPE Edgeline EL4000 Converged Edge System brings industry-leading HPE Integrated Lights Out (iLO) management and security to the edge – the same HPE iLO found in HPE ProLiant Servers used in traditional data centers. A single HPE iLO RJ45 Ethernet port enables deployment, monitoring and support.

The HPE Edgeline EL4000 is also fully compatible with popular IoT security solutions for protection in high-risk edge environments. Aruba ClearPass enables custom profiles to be created to identify and secure IoT devices.

Through real-time interaction with third-party security solutions, ClearPass offers automated threat protection and recovery for devices that represent risk, with minimal hands-on IT interaction required.

Aruba Virtual Intranet Access (VIA) enables seamless virtual private network (VPN) tunnels for secure connectivity between edge locations and the corporate network.

HPE Edgeline Converged Edge Systems have a modular design that enables easy subsystem replacements and upgrades.

## Engineered for Harsh Edge Environments

The HPE Edgeline EL4000 Converged Edge System is designed to reside where the data is created, often in environmentally harsh, space-constrained, and/or dusty environments.

This compact, ruggedized system is designed to withstand increased shock and vibration, and can tolerate high ambient operating temperatures up to 55°C (131°F) – well beyond what traditional servers can typically endure. Telco-specific options such as NEBS Level 3 certification, are also available.

When floor space options are limited, a wide range of wall-, rack-, or shelf-mounting options open up a multitude of placement possibilities. Finally, you can easily connect HPE Edgeline Converged Edge Systems to your electrical infrastructure by selecting AC or -48V DC hot-pluggable power supplies.

| Technical specifications | HPE Edgeline EL4000 Converged Edge System |
|---|---|
| **High-density compute nodes** | One to Four HPE ProLiant Server Cartridges Supports HPE ProLiant m510 (Intel® Xeon® D, 8 or 16 cores each) and HPE ProLiant m710x (Intel Xeon E3, 4 core with workstation-class GPU) compute nodes |
| **Built-in I/O** | Two switched 10 Gb (SFP+) or two pass-through 4x10 Gb (QSFP+) Ethernet ports Four USB 3.0 ports (one per server) HPE iLO4 enterprise-class management processor with a dedicated RJ45 network port |
| **Storage** | Three to five Solid State Drive (SSD) slots on each compute node. Choose from cost-effective SATA SSDs or high performance NVMe SSDs, for up to 4 TB total capacity External storage via PCIe add-in I/O cards (e.g. FC SAN) iSCSI with RDMA over Ethernet (RoCE) capability (when supported by compute node for data volume only, not boot) |
| **Mechanical and power** | Chassis Dimensions: 43 mm (1.69 inch) tall, 435 mm (17.13 inch) wide, 615 mm (24.21 inch) deep. Fits within 1U in a standard 19 inch rack. Weight: Approximately 14 Kg (30.9 lb) Standard Rack (with Cable Management Arm) or Wall-mount Typical: 400-600W, Maximum: 800W AC supply: 95-265 VAC input, 800 Watts DC supply: -48 VDC input, 800 Watts High Efficiency 1+1 Redundant Power |
| **Environmental, shock and vibration** | Extended operating temperature from 0°C up to 55°C (0°F up to 131°F) (depending on configuration), Storage -30 to 60°C (-22°F to 140°F) 95% non-condensing humidity Operating Shock, IEC 60068-2-27, 30G half-sine, 11ms duration Operating Vibration, IEC 60068-2-64, 3Grms random 5 ~ 500 Hz one hour per axis |
| **Expansion slots** | Four full-height half-length (FHHL) PCIe x8 cards (physical x16 slot) of up to 50W each (one per compute node) -or- four PXIe modules (one to four assignable to each compute node) |
| **Warranty** | 3-Year Parts, 3-Year Labor, 3-Year Onsite support |

For additional technical information, available models and options, please reference the QuickSpecs

# HPE POINTNEXT SERVICES

HPE Pointnext Services brings together technology and expertise to help you drive your business forward and prepare for whatever is next.

### Operational Services from HPE Pointnext Services

HPE Pointnext Tech Care provides fast access to product-specific experts, an AI-driven digital experience, and general technical guidance to help enable constant innovation. We have reimagined IT support from the ground up to deliver faster answers and greater value. By continuously searching for better ways to do things—as opposed to just fixing things that break—HPE Pointnext Tech Care helps you focus on achieving your business goals.

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 Integration and Performance Services** help you customize your experience at any stage of your product lifecycle with a menu of services based on individual needs, workloads, and technologies.

- Advise, design, and transform
- Deploy
- Integrate and migrate
- Operate and improve
- Financial Services
- Greenlake Management Services
- Retire and sanitize
- IT Training and personal development

### Other related services

HPE Education Services delivers a comprehensive range of services to support your people as they expand their skills required for a digital transformation. Consult your HPE Sales Representative or Authorized Channel Partner of choice for any additional questions and support options.

**Defective Media Retention** is optional and allows you to retain Disk or eligible SSD/Flash Drives replaced by HPE due to malfunction.

# HPE GREENLAKE

HPE Greenlake is HPE's market-leading IT as-a-Service offering that brings the cloud experience to apps and data everywhere – data centers, multi-clouds, and edges – with one unified operating model. HPE GreenLake delivers public cloud services and infrastructure for workloads on premises, fully managed in a pay per use model.

If you are looking for more services, like **IT financing solutions**, please explore them here.

**Make the right purchase decision. Contact our presales specialists.**

Call for availability

**Chat now (sales)**

**Call now**

**Buy now**

**Share now**

**Get updates**

Hewlett Packard Enterprise


PSN1008670180CZEN, April 13, 2022.