



HPE EDGELINE EL300 CONVERGED EDGE SYSTEM

Edgeline Systems



WHAT'S NEW

- Updated Intel® Core™ i7 processor bringing more power for increased workloads and edge video processing.
- Vehicle ignition switch integrated in the power supply. This enables automotive development engineers to implement server compute without parasitic loads. Power down timing is customizable in iSM.
- Supports a 2x CAN Bus Daughter Card and meets CAN Bus A/B/FD standards. It is ideal for automotive environments.
- Features updated wireless connectivity options. A Sierra Wireless LTE M.2 3042 module (EM7565) can be added with dual Nano SIM support for remote connectivity.
- HPE Edgeline Infrastructure Manager (EIM) tool is now available, allowing on premise remote management at scale. The HPE EIM Standard allows basic features,

OVERVIEW

Are you looking for a converged operational technology (OT) and enterprise-class information technology (IT) in a single, ruggedized system that implements data center-level compute and management technology at the edge?

The HPE Edgeline EL300 Converged Edge System provides an effective way to connect and manage all your OT systems such as control systems, data acquisition systems and industrial networks. HPE Edgeline EL300 is a highly flexible and customizable platform that can grow as your needs evolve over time. Its modular design allows the device to incorporate IO cards for a multitude of connectivity options. This HPE Edgeline EL300 supports remote management over both wireless and wired networks. The HPE Edgeline EL300 has a ruggedized, fanless design that will withstand harsh environmental conditions with a wide operational temperature range of 0°C (32°F) to 70°C (158°F) and is ideal for embedded customer use cases.

while HPE EIM Advance requires a license.

- HPE Edgeline IoT Quick Connect enables industrial and manufacturing companies to easily connect equipment to generate meaningful insights needed to modernize production lines and gain efficiencies.

FEATURES

Improve Uptime with Edge System Management Using HPE Edgeline Integrated System Manager (iSM)

HPE Edgeline EL300 Converged Edge System with HPE Edgeline iSM allows for increased uptime and system administrator efficiency in an edge-focused management software tool. Remotely monitor system health, event logs, and thermal characteristics as well as support firmware and flash updates.

HPE Edgeline iSM remote management of HPE EL300 can be accomplished over multiple types of networks including wired Ethernet, Wi-Fi, and cellular with constant and intermittent connectivity. Remote management over wireless (LTE, etc.) allows the HPE Edgeline EL300 to be deployed nearly anywhere.

The HPE Edgeline EL300 with iSM is Redfish compliant and supports SSH CLI and web GUI interfaces for greater ease of use.

OTLink Dramatically Simplifies Deployment and Management of Operational Technologies

HPE Edgeline EL300 Converged Edge System features HPE Edgeline OTLink software-defined intelligence for fast, simple, and reliable OT+IT application deployment. Deploy converged OT+IT infrastructure with one touch provisioning quickly and efficiently.

HPE Edgeline OTLink provides a simple way to orchestrate OT+IT applications on edge-focused infrastructure in just a few clicks. Enable and manage OTLink based applications effortlessly as needed.

Protect Converged OT+IT systems with integrated security and enterprise-class reliability.

The HPE Edgeline IoT Quick Connect Guide includes all of the instructions you need to quickly and easily connect industrial devices at the edge and bring the data into the cloud.

Environmental, Mechanical, and Wireless Certifications

The HPE Edgeline EL300 Converged Edge System is designed to reside in environmentally harsh, space-constrained, and/or dusty environments. This ruggedized system is rated to MIL-STD-810G shock and vibration specifications to facilitate reliability and dependability.

The HPE Edgeline EL300 can be deployed in wide array of environmental conditions including extreme temperatures. The system can tolerate a low operating temperature of 0°C (32°F) to a high operating temperature of up to 70°C (158°F).

A Fan-less IP50 design minimizes dust and debris intrusion in dirty environments such as factories or trucks.

Global wireless LTE module supports common carrier frequencies worldwide and is certified in numerous countries. The HPE Edgeline EL300 has dual SIM slots to allow easy switching between telecom operators. A combination Wi-Fi+BT wireless option is also available.

Multi-System Management for Improved Efficiency with HPE Edgeline Infrastructure Manager (EIM)

The HPE Edgeline EL300 Converged Edge System features the HPE EIM, delivered as a virtual appliance which supports automated device discovery for fast setup and deployment.



HPE EIM sends health monitoring and alerts to resolve problems quickly.

The system supports one-click firmware and software updates at scale.

Increase Ease of use with SSH, CLI, and web GUI interfaces that are Redfish compliant.

Technical specifications

HPE Edgeline EL300 Converged Edge System

High-density compute nodes	Intel® Core™ i5 - 7300U Dual core, 2.6GHz, 15W Intel® Core™ i7 - 8650U Quad core, 1.9GHz, 15W
Built-in I/O	2x Ethernet 1GE 1x dedicated management port 1GE; 1x serial RS232 port; 2x USB3.0; 2x USB2.0; 1x SD card slot; 6x antenna ports; 1x HDMI; 1x display port (DP); audio ports (Mic, line in, line out); additional I/O available from Daughter Card options I/O located at bottom access panel; 1x M.2 1630/2230 WiFi module; 1x M.2 3042 LTE module; 2x Nano SIM Slot for cellular.
Storage	1x M.2 2280/22110 PCIe NVMe SSD 1x M.2 2242/2280 SATA SSD 1x SFF SSD or M.2 2242/2280 SATA SSD 1x SD Card
Mechanical and power	DIN Rail and wall mount options Two options for power A) 12VDC input B) 9v-36VDC input with vehicle ignition switch Typical power 50W
Environmental, shock and vibration	Operational vibration wall mounting (MIL-STD-810G): vertical axis : 1.04Grms 10Hz to 500Hz, 1 hour, transverse axis : 0.2Grms 10Hz to 500Hz, 1 hour, longitudinal axis : 0.74Grms 10Hz to 500Hz, 1 hour. operational vibration DIN-rail:0.3Grms 10Hz to 300Hz, 15 minutes per axis. Operational shock wall mount (MIL-STD-810G):40G 11ms , terminal peak sawtooth shock pulse, 3 shocks/axis/direction for a total of 18 shocks, operational shock DIN-Rail: 10G 10ms, half-sine, three for each axis. (Both positive & negative pulse), non-operational vibration wall mount (MIL-STD-810G): 7.7Grms 20Hz to 2000Hz, 1 hour per axis, non-operational vibration DIN-Rail:2Grms 10Hz to 500Hz, 1 hour per axis, non-operational shock (crash hazard) wall mount (MIL-STD-810G): 75G 6ms, terminal peak sawtooth, 2 shocks in each axis/direction for a total of 12 shocks, non-operational shock (crash hazard) DIN-Rail: 10G 457(cm/sec), square wave shock, 1 shock in each axis/direction.
Expansion slots	Selection of 1 Daughter cards available from: 1) Four ports 1GbE Ethernet with TSN support 2) Two ports CAN Bus A/B/FD 2.0 – optically isolated 3) Two ports RS232/422/RS485 optically isolated 4) One 8 bits configurable GPIO supports DIO/ADC/DAC
Product Dimensions (metric)	20 x 23.2 x 10 cm (HxWxD)
Weight	4.91 kg
Warranty	3-3-3 warranty standard on all HPE Edgeline EL300 3 years parts, 3 years labor, 3 years on-site 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.

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Parts and Materials: HPE will provide HPE-supported replacement parts and materials required to maintain the covered hardware.

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 quick-specs, or the technical product data sheet will not be provided, repaired, or replaced as part of these services.

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