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TECHNOLOGY GROUP

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Hewlett Packard Enterprise

HPE Edgeline EL1000 and EL4000

Introducing a new product category: Converged Edge Systems



HPE Edgeline EL1000



HPE Edgeline EL4000

Accelerating insight beyond the data center—bringing unprecedented deep compute, data capture, control, and enterprise management to the edge

Unprecedented edge compute
- Data center class capabilities and performance
- Up to 64 Intel® Xeon® cores (EL4000) provide deep compute
- Integrated data acquisition, processing and control for accelerated time to insight
- Hot-plug compute options
- Ideal platform for machine learning

Precision data capture and control
- Open PXI standards enable real time, direct analog data visibility and insights
- HPE Vertica algorithms benefiting a broad range of IoT use cases
- Control co-located with data source to address latency, bandwidth, and compliance issues

Data center-class security and management
- HPE iLO (integrated Lights Out)—a world-class systems management tool
- HPE Aruba ClearPass automated threat protection and recovery

The HPE Edgeline EL1000 and HPE Edgeline EL4000 Converged Edge Systems lead the expansion from data center and cloud computing to the edge, enabling IoT insights and action in real time, through three points of convergence in one box:

1. Unprecedented deep edge compute based on open standards
2. Unique integration of precision data capture and control
3. Data center-class security, device, and systems management

These rugged, compact systems are designed specifically for harsh environments—providing data center-level capabilities at the edge that deliver immediate insight from IoT data. This enables businesses to make real-time decisions, adding value to their operational processes that result in better business outcomes.

HPE Edgeline Converged Edge Systems also address latency, bandwidth, cost, security, duplication, corruption, and compliance issues, enabling three critical components of savings and success—immediate insight, money, and time to action. The HPE Edgeline EL1000 and EL4000 bring new and distinct business values to the edge, offering:

- **Faster insights and business agility:** Integrated data acquisition, processing and control for accelerated time to insight
- **Converged solutions:** Deep, open x86 compute, precision data capture and control with open PXI standards, and enterprise-class device and systems management
- **Automated security:** HPE Aruba ClearPass offers automated authentication, threat protection, and recovery for at risk edge devices that represent risk, with minimal hands-on IT intervention
- **Deep analytics:** HPE Vertica delivers a broad range of IoT data analytics algorithms to enable innovative use cases
- **Compact size and footprint:** Various mounting options to suit space constrained edge environments
- **Ruggedized form factor:** Designed to withstand increased shock, vibration, and broad temperature ranges compared to traditional servers
- **Reduced cost:** Shared infrastructure in a converged box lowers TCO
- **Ease of upgrade or replacement:** Modular, integrated design enables easy subsystem replacements and upgrade

Edgeline EL1000 technical specifications

Compute	One Intel Xeon based HPE ProLiant m510 high-density server 8 or 16 core or HPE ProLiant m710x 4 cores + GPU high density server
Dimensions	13.29" wide, 3.44" tall, 9.16" deep All power and I/O is connected via two sides allowing for shelf placement against a wall
I/O	Supports up to two full-height, half-length x8 PCIe cards or two x8 PXIe slots Two internal mini PCIe slots (with two associated SIM sockets)
Network	2 port 1 Gb RJ45 or 2 port 10 Gb SFP+
Storage	Dual hot-plug 2.5" SFF disk bays up to 4 TB total Onboard server cartridge SSDs up to 4 TB total External storage via PCIe or iSCSI
Cooling	Embedded fans Left to right cooling allows for shelf placement against wall Optional air filter
Environmental	Extended operating temperature: 0–55°C 95% non-condensing humidity
Power	95–265 VAC or -48 VDC input, high efficiency
Management	HPE iLO 4 enterprise-class with dedicated management RJ45
Warranty	3-3-3 (3 years parts, 3 years onsite, 3 years labor)

Edgeline EL4000 technical specifications

Compute	Four Intel Xeon based HPE ProLiant m510 high-density server 8 or 16 cores or HPE ProLiant m710x 4 cores + GPU high-density server
Dimensions	1U, 23" deep, 17" wide, reversible rackmount with slide rails All power and I/O are connected on the same side
I/O	One x8 PCIe slot per server (four total) or four assignable x8 PXIe slots
Network	2 port 10GbE pass through per cartridge (dual, combined QSFP+) or aggregated 2 port 10GbE SFP+ uplinks (layer 2 switch)
Storage	Onboard server cartridge storage up to 4 x 4 TB total External storage via PCIe or iSCSI
Cooling	N+1 redundant fans Optional air filter
Environmental	Extended operating temperature: 0–55°C 95% non-condensing humidity
Power	95–265 VAC or -48 VDC input, 1+1 redundant power, high efficiency
Management	HPE iLO 4 enterprise-class aggregated to single management RJ45
Warranty	3-3-3 (3 years parts, 3 years onsite, 3 years labor)

Learn more at
hpe.com/info/edgeline

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