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Ruggedized Compute in a Carry-On Container

The HPE Edgeline EL8000 Converged Edge System brings high-performance computing to the edge of networks, where large volumes of data are being generated but compute capability to get quick insights has traditionally been very limited. The compute capacity previously limited to traditional data centers or the cloud is now available at the Edge, close to where the data is generated.

Use Cases and Validations

Vehicle-based Systems or Fixed Site
- Command Post – Mission Command Applications
- Ground Stations – ISR sensor processing w. AL/ML
- Control Posts – Offensive and defensive weapons systems
- Command Post – Video Display Control
- Tactical Network NFV and app platform

Post / Camp / Station
- Multi-Edge Access Computing (i.e. 4G/5G cell towers)

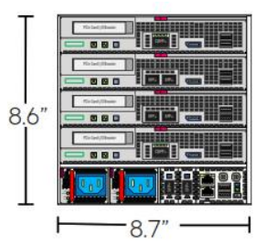
Smart Base Edge Computing
- Image analytics, smart entry, traffic analytics

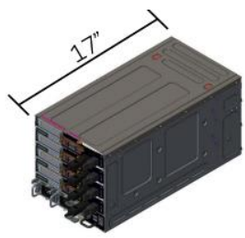
Fly Away Kits
- Deployable C5ISR applications
- First responders
- Special mission (i.e. Cyber)
- Fits in a commercial airplane carry-on suitcase

Tactical Cloud

Validations
- Red Hat OpenShift
- Azure Stack HCI
- vSAN ReadyNode
- Real-time Signal Identification (OmniSig)
- Nutanix (DX8000)

HPE EdgeLine 8000 Specs





Chassis:

- Small Size: 8.6” x 8.7” x 17”
- 5U. Half rack width.
- All I/O on the same side. Chassis is reversible.
- Variety of power supply options

1U and 2U Compute Nodes

2U Compute w/ Storage Shelf

Configurations per 5U half width block:

- Up to 4 high-power compute blades (Scalable Cascade Lake processors, up to 28 Core 205W TDP Xeon per blade, up to 1.5 TB RAM per blade, plus accelerator options – GPU, FPGA, etc.)
- Storage Chassis: Compute node w/ >120TB raw capacity (8SFF SSDs w/ HW RAID)

Ruggedized

- 0 – 55 C operational temperature specification
- Tested to higher levels of shock and vibration vs. typical server

Superior Management and Security

- iLO5 Silicon Root of Trust
- Backed by HPE’s Secure Supply Chain

Incredible Density

Built for the Edge, but data center capable --with Zero-U shelf, two EL8000 chassis can be mounted side by side

- Twelve chassis in 30 RU provides 48 server nodes totaling up to:
  - 1,344 cores of Cascade Lake compute (using 28-core processors)
  - 72 TB DDR4 RAM
  - 960 TB NVMe Storage
  - 48 PCIe Gen3 slots available for GPU, FPGA, high speed networking
  - Integrated 10Gb switches for dual uplink to top of rack switches