

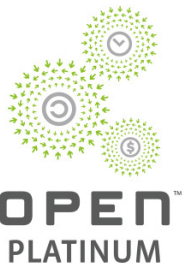
Relion 1930e

World's densest x86 Supercomputer built for OCP

Penguin Computing's Tundra OpenHPC platform delivers density, performance and serviceability for demanding customers. Tundra OpenHPC systems are designed for optimized CAPEX and OPEX in medium to large scale Data Centers.

Powered by Intel's Xeon E5-2600 v3 and v4 processors and with multiple high performance / low latency fabric options, Relion 1930e is designed for High Performance Computing clustering environments.

Based on Open Compute (OCP) Open Rack specification, Tundra OpenHPC reduces infrastructure costs over multiple technology generations. Due to the OCP Open Rack infrastructure's efficient use of available space Penguin Tundra solutions can pack 3 Tundra Relion 1930e nodes per each horizontal rack unit. This allows up to 96 nodes per rack with the associated shared power infrastructure and fabric / networking switches.



Penguin Computing specializes in delivering turn-key High Performance Computing clusters and Data Center systems that include software solutions for cluster and workload management, high performance interconnects, storage systems and a power delivery infrastructure. All components are integrated in rack enclosures, configured for optimal performance by Penguin's HPC experts and ready to use.

Penguin systems are tested for compatibility with all major commercial and freely available Linux distributions and are available with Red Hat Enterprise Linux, SuSE Linux Enterprise Server or CentOS pre-installed.



Features

- OCP OpenRack form factor, 1 OU, 3 Servers per Shelf
- Dual Intel® Xeon® E5-2600 v3 and v4 processors
- Up to 512GB DDR4-2400MHz (8x DIMMs) per node
- Intel® C610 Chipset
- 1x Dedicated Management Port
- Optional Infiniband, Omni Path and 10/25/40/50 Ethernet interconnects
- 1x PCIe 3.0 x16 Low Profile Expansion Slot
- 1x 2.5" SATA SSD/HDD
- USA – UL listed, FCC
- Canada – CUL listed

Tundra Architecture

- 2x Independent Power Zones, each supplying 18kW with N+3 Redundancy)
- Total Open Rack supports 36kW with (N+3 Redundancy)
- Disaggregate Power Supply, 3-Phase, wide range (208-277V) input providing 12V DC power
- OpenHPC™ Compute Server Shelf supports up to 3x Compute Servers
- OpenHPC™ Shelf is 1 OU height; (Open U); 1 OU = 48 mm (1.889")
- Designed in accordance to OCP Open Rack Specification
- Allows for reduce infrastructure cost during technology generation transition



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