

## Next-generation Power for Advanced Enterprise Workloads and Applications

### ► OPEN SOLUTIONS

COMPUTE

STORAGE

NETWORK

CLOUD



Penguin Computing Altus X01132g is an Open Compute Server, and part of the Penguin Computing Tundra Extreme Scale (ES) Family. Featuring a 10U 3 Node server powered by AMD® EPYC® Processor, it is a high density server targeting high performance computing and highly optimized for hyper-scale deployment. Altus X01132g supports up to 128 PCIe Gen3 lanes, with capability to handle multiple NVMe devices and OCP Mezz card options.

The Altus X01132g features three independent nodes in a 1 OU space, that supports 2.5" boot drive, two PCIe Gen3 Expansion slots and LOM such as 10G-BaseT (PCH), 10GbE-SFP+ or QAT w/10G-BaseT. Each node supports up to 2TB DDR4-2666MHz of memory and support for Direct to Chip liquid cooling technology to achieve support of up to 180W processor TDP per node.

Penguin Computing specializes in delivering turnkey 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.

#### FOR INFORMATION, PLEASE CONTACT:

[sales@penguincomputing.com](mailto:sales@penguincomputing.com)

1-888-PENGUIN (736-4846)

twitter: @PenguinHPC

[www.penguincomputing.com](http://www.penguincomputing.com)



## Key Features

- 1 OpenU Form Factor
- Dual Socket AMD® EPYC® processor
- Up to 2TB DDR4-2666MHz (16x DIMMs)
- SOC Chipset
- 1x PCIe Gen3 x16, 1x PCIe Gen3 x8, 1x OCP Mezz
- OCP Mezz Options include LSI3008 Int., Dual 10G/SFP+ (BCM57810S), Single 10Gg/SFP+ (BCM57811), Dual 10G/SFP+ (Intel 82599ES), Single 10G/SFP+ (Intel 82599EN)
- 2x Fixed U.2 NVMe or 2x Fixed SAS/SATA and 2x M.2 NVMe
- Supports Nvidia® Tesla® M4 and P4 GPU's

## Integrated I/O And External Ports

- 1x VGA
- 2x USB 3.0
- 2x 10GbE/RJ45
- Dedicated BMC

## Dimensions

- 1.65" x 6.93" x 31.32" (H x W x D)
- Weight: 12.5 lbs.



## OTHER OCP PRODUCTS:



### Relion X01132g

- 10U OCP OpenRack form factor
- Dual Socket Intel® Xeon Sklake-SP/ Skylake-SP with Intel® Omni-Path
- Up to 2TB DDR4-2666MHz ECC (16x DIMMs)
- Intel® C620 Chipset (Lewisburg)
- 2x 10GbE/RJ45
- 1x Dedicated BMC port
- 2x PCIe Gen3 Slots
- 2x Fixed SAS/SATA/SSD
- 2x Fixed U.2 NVMe



### Relion X1904GT

- Dual Intel® Xeon® E5-2600 v3 and v4 processors
- 1 OpenU form factor with 4x2.5" SATA SSDs
- Up to 1TB DDR4-2400MHz (16x DIMMs)
- 2x PCIe 3.0 low profile
- Supports 4x GPGPU (NVIDIA Tesla P100, P100-SXM2, M40 and P40)
- Supports Asetek Direct-to-Chip Cool



### Relion X1030e

- OCP OpenRack form factor, 1 OU, 3 Servers per Shelf
- Single Socket Intel® Xeon Phi™ 7200 Series, including -F (OmniPath)
- Up to 384GB DDR4-2400MHz (6x DIMMs)
- Intel® C610 Chipset
- Shared BMC
- 2x PCIe Gen 3 x16 Low Profile
- Up to 2x 2.5" SSD/U.2 NVMe
- Up to 8x M.2 NVMe Storage
- 1x mSATA (Onboard)
- 2x 1GbE ports
- Supports Intel® Omni-Path via KNL-F Processor or PCIe card



### Relion X01132e

- 10U OCP OpenRack form factor
- Dual Socket Intel® Xeon Sklake-SP/ Skylake-SP with Intel® Omni-Path
- Up to 2TB DDR4-2666MHz ECC (16x DIMMs)
- Intel® C620 Chipset (Lewisburg)
- 2x 10GbE/RJ45
- 1x Dedicated BMC port
- 2x PCIe Gen3 Slots
- 2x Fixed SAS/SATA/SSD
- 2x Fixed U.2 NVMe

## FOR INFORMATION, PLEASE CONTACT:

sales@penguincomputing.com

1-888-PENGUIN (736-4846)

twitter: @PenguinHPC

[www.penguincomputing.com](http://www.penguincomputing.com)