

PowerServe HPC/AI Servers



PowerServe Duo

Realize the power of cutting-edge technology HPC, Machine Learning and AI enterprise servers hand crafted for maximum performance.

With 25+ years experience delivering HPC solutions to the world's most demanding organizations, PSSC Labs is referred to as the "Superstars of Supercomputing."

PSSC Labs has delivered tens of thousands of HPC servers to higher education, government agencies, small / medium businesses and large enterprise organizations across 36 countries. PowerServe HPC / AI Servers help organizations stay on technology's cutting edge leveraging the latest components from Intel® and Nvidia®. These high performance server platforms can be found in the following industries:

- **Artificial Intelligence – Machine / Deep Learning**
- **Design and Engineering – Aerospace & Automotive**
- **Life Sciences – Genomics, Drug Discovery & Development**
- **Chemistry & Physical Sciences – Astrophysics, Computational Chemistry and Weather Modeling**

Key Features & Benefits.

The right choice for any real-time SQL/noSQL database applications:

- Ideal for any HPC environment in the Government, Academic and Commercial marketplace

Watch

See PSSC Labs Servers and Solutions in action:

youtube.com/user/psscclabs

Learn

Visit our Case Studies page to learn how PSSC Labs is helping organizations achieve their technology goals:

psscclabs.com/company/case-studies

Socialize

We enjoy hearing from you. Engage with us on:



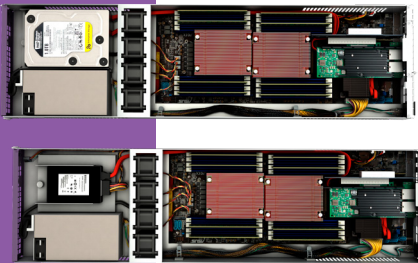
- Select from the latest Xeon® / Xeon® PHI, Nvidia® GPU and FPGA technologies to configure the right solution
- Green technology offering the lowest Gflop per watt on the market.

Proven features offer unmatched performance with the lowest total cost of ownership.



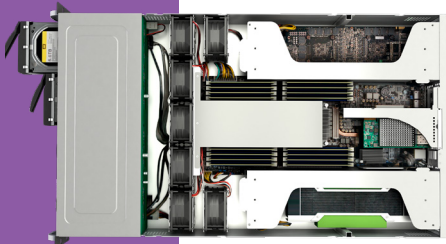
01.
High Density (Half U) Enterprise Platform Built for HPC Applications.

PowerServe Duo shown



02.
Leading Energy Efficient Server Design with 90%+ Green Power Supply.

PowerServe Duo shown



03.
Support for the latest Nvidia® GPUs and Intel® Xeon and FPGAs.

PowerServe Cortex 4x shown



04.
Support for 10GigE, 40GigE, 100GigE Network Connectivity.

PowerServe Cortex 4x shown

Tech Specs.

Processor Support:

- 2 x Intel Xeon Scalable Processors
- Support for Bronze, Gold, Platinum CPUs
- Maximum 52 Total Cores/104 Cores with Hyperthreading

Memory Support:

- 16 x DDR4 Memory Dimm Slots
- Up to 1 TB Memory Capacity
- 2666 / 2400 MHz Support
- 6 Channel Memory Architecture

Disk Storage Controller:

- LSI MegaRaid 12 Gb/sec SATA / SAS
- Expander Backplane
- Supports JBOD, RAID 0,1,5,6,10,50,60

Network Support:

- 2 x 10 Gb/s SFP+ LAN Ports (QLogic® QL41102) or RJ45 Ports
- 2 x 1 Gb/s LAN Port
- 1 x 10/100/1000 Management LAN
- Optional 40 GigE, 100 GigE Ports
- Optional Mellanox® Infiniband® and Intel® Omnipath®

Power Supply:

- Maximum 1200 Watt 1+1 Redundant Power
- 80%+ Platinum Level

Operating System:

- Windows Server 2012 R2 (x64) Update1
- Windows Server 2016
- Red Hat Enterprise Linux 7.x (x64)
- CentOS Linux 7.x (x64)
- SUSE Linux Enterprise Server 12.2 (x64)
- Ubuntu 16.04.2 LTS (x64)
- VMware ESXi 6.5

PowerServe Duo

Disk Storage Capacity:

- Maximum 3 x SSD or 1 SATAIII Hard Drive

GPU Support:

- No Additional GPU Support

Dimensions & Weight:

- 1/2U Rackmount
- 19" W x 28" D x 1.75" H
- Average 26 lbs

PowerServe Cortex 4x

Disk Storage Capacity:

- Maximum 6 x SSDs

GPU Support:

- Up to 4 x NVIDIA Tesla, Quadro or Geforce
- Optional Support for 4 x Intel FPGA

Dimensions & Weight:

- 2U Rackmount
- 19" W x 29.5" D x 3.5" H
- Average 43 lbs

Tech Specs.

Service Level Agreement:

- Three Year Silver Level SLA Included
- Gold and Platinum SLA Optional
- Years Four and Five Year SLA Optional

Management & Monitoring:

- Aspeed® AST2500 management controller
- Avocent® MergePoint IPMI 2.0 Web Interface:
- Network settings
- Network security settings
- Hardware information
- Users control
- Services settings
- IPMI settings
- Sessions control
- LDAP settings
- Power control
- Fan profiles
- Voltages, fans and temperatures monitoring
- System event log
- Events management
(Platform events, trap settings, email settings)
- Serial Over LAN
- vKVM & vMedia (HTML5)

PowerServe Cortex 10x

Disk Storage Capacity:

- Maximum 14 x SSDs
- Optional 10 x SSDs + 4 NVMe SSD

GPU Support:

- Up to 10 x NVIDIA Tesla, Quadro or Geforce
- Optional Support for 10 x Intel FPGA

Dimensions & Weight:

- 4U Rackmount
- 19" W x 31" D x 7.0" H
- Average 65 lbs

Included Services

- Operating system installation
- Storage partitioning and configuration (JBOD or RAID)
- Net Connect integration service for easy network boot
- BIOS customization
- Power and cooling consultation prior to delivery
- Mac address recording and reporting
- Node name labeling
- Rack 'n Roll Services Available for Turn-Key Installation

Contact Us

Our Experts in HPC, Big Data and Data Centers are here to help.

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**DESIGNED AND BUILT IN LAKE FOREST,
CALIFORNIA**

