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embedded computing

GALLEON RUGGED VIRTUALIZATION SERVER

Removable Storage — 16 Core — High Performance

The XSR Tactical Secure Server is targeted to provide the warfighter with leading edge processing power, advanced I/O and ultra-high storage density packaged in a SWaP-optimized design for installation on the most demanding mobile platforms.

The XSR-TSS offers up-to 16 CPU cores and 128GB of memory necessary for virtualization server application demanded by today's advanced sensor designs using the latest embedded Intel Xeon E and Xeon D processors.

The flexible I/O architecture allows easy integration with existing infrastructure. Up to four 10 Gigabit Ethernet ports or five Gigabit Ethernet ports are supported, which makes the unit ideal for virtualization servers, network attached storage (NAS) applications, or other network connected high performance processing systems.

The removable data module (RDM) can be configured as a build option for either high performance NVME

or high capacity SATA storage using rugged and reliable solid state storage. Offering industry-leading storage density, SATA RDMs offer up to 80TB of storage and NVME RDMs offer up to 16 TB of storage.

Optional Hardware Full Disk Encryption (HWFDE) is available using the AES-256 bit alogrithm implemented in FIPS 140-2 certified devices. Similarly, Software Full Disk Encryption (SWFDE) can provide a separate layer of Data at Rest protection as recommended by the NSA for the Data at Rest Commercial Solutions for Classified (CSfC).

The servers can be configured with most standard operating systems, including RedHat Enterprise Linux, VMWare, or Windows Server.
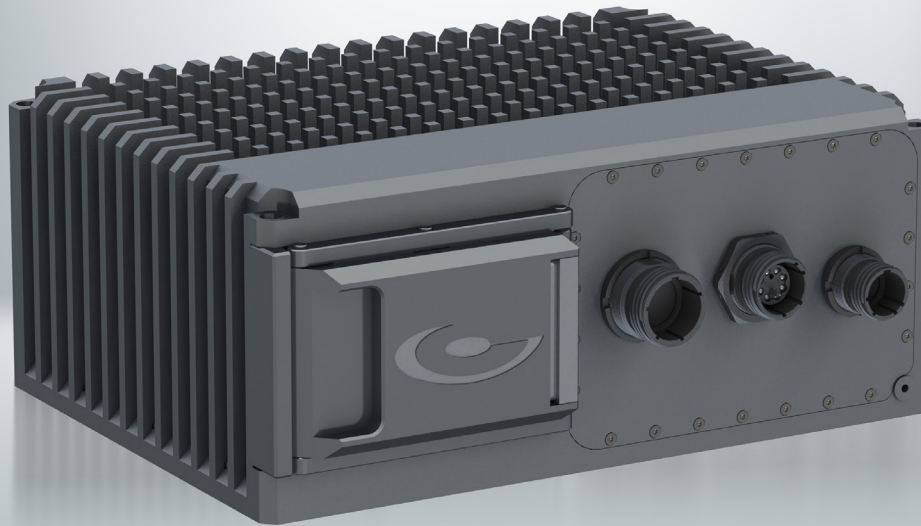
Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100 and ISO 9001.

POWERFUL RUGGED SERVER WITH XEON E OR XEON D CPU

KEY FEATURES

- Xeon E Gen 9 or Xeon D CPU options
- Up to 128GB DDR4 SDRAM with ECC
- Up to 4 10GbE ports
- Up to 80 TB Storage
- SATA or NVME Storage Option
- Data at Rest encryption

APPLICATIONS

- Virtualization server
- Command & Control
- Enhanced Situational Awareness
- Electronic Warfare
- Integrated Sensor Systems
- Fire control

BENEFITS

- SWaP optimized
- High performance
- High bandwidth
- High capacity secure storage
- Flexible and scalable
- Rugged conduction and air cooled designs

FIPS 140-2 Inside

Processor
- Intel® Xeon® E-2276ME 6 Core
- Intel® Xeon® D-1559 12 Core
- Intel® Xeon® D-1577 16 Core
- Up to 128GB DDR4 SDRAM with ECC

Front Panel Connection
- 1x 1000BASE-T GbE
- Up to 4x 10GBase-SR (option)
- Up to 1 x 40Gbase-SR4 (option)
- Up to 2 x 25GBase-SR (option)
- VGA, USB, RS232/422, GPIO
- 1x Power

I/O Expansion
- XMC with x8 PCI Express interface
- MiniPCI Express expansion site

Storage
- 1 x SLC FLASH OS system disk (up to 256GB)
- Up to 80TB SATA removable MLC FLASH
- Up to 40TB SATA removable SLC FLASH
- Up to 16TB NVME removable MLC FLASH

Temperature
- 0°C to +50°C standard temperature
- -20°C to +60°C extended temperature
- -40°C to +71°C extended temperature

Altitude
- -1500 to 60 000 ft (CC)*

Size
- Size estimate of CC box: 290mm x 205mm x 110mm

Weight
- Approx.: 5.5kg

Power Supply
- 16-40V DC wide input
- Tested to MIL-STD-704

* Contact factory for high altitude options

ABOUT GALLEON

Galleon Embedded Computing is an innovative leader in development of high-performance, high-quality storage solutions and small rugged data recorder systems, servers and NAS devices.

Galleon's offerings span from commercial grade products for benign environments to ruggedized conduction-cooled products for deployed systems in severe environments.

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