

GALLEON XSR RUGGED NAS

High Performance Network-Attached Storage

The Galleon XSR Rugged NAS offers superior performance in a very small form factor. Removable storage ensures short ground times for airborne applications. Industry standard solid-state drives are used to benefit from the ever-increasing storage densities and cost reductions as the technology evolves.

The XSR NAS is capable of handling a high number of simultaneous connections without compromising system performance. It supports up to 13 Ethernet connections, configurable as 1Gb, 10Gb, 25Gb and 40Gb interfaces on both copper and optical media.

The unit can be delivered with Windows Embedded Storage Server, Linux Enterprise Server or FreeNAS SW preconfigured to suit your application needs. An optional FIPS 140-2 validated hardware encryption module provides a high level of data security with flexible key loading options, including physical key tokens through front panel key loading port and remote loading over a secure network connection.

The design concept of XSR is based on the use of COTS Open Architecture modules, that allow the unit to make use of the latest generation Intel Core-i7 and Xeon processors. This enables the XSR to keep pace with increasing technology advancement and provides a key mitigation strategy for Obsolescence Management, which helps to protect the user's design for 10 years or more. The extremely rugged design makes it ideal for deployed applications in rugged or harsh environments.

Optional FIPS 140-2 and AES-256 hardware encryption provides a high level of data security with flexible key management options, including physical key tokens through front panel key loading port and remote loading over a secure network connection.

Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100 and ISO 9001.

ULTRA SMALL RUGGED NAS



FIPS 140-2 Inside

KEY FEATURES

- Up to 13 ports 1Gb Ethernet
- Up to 8 ports 10Gbit Ethernet
- Up to 4 ports 25Gbit Ethernet
- Up to 2 ports 40Gb Ethernet
- SMB/CIFS, NFS, AFP, FTP, HTTP and rsync
- RAID 0, 1 and 5 support
- Optional hardware AES-256 encryption
- GPS unit for date and time synchronization
- Up to 80TB removable SSD

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Flight management
- Map systems
- Cockpit information systems

BENEFITS

- SWaP optimized
- High performance
- Flexible and scalable
- Rugged conduction or air cooled designs

TECHNICAL SPECIFICATION



Network

- Up to 13 GbE ports (1000Base-T)
- Up to 8 ports 10Gbit Ethernet (10GBase-T or 10GBase-SR optical)
- Up to 4 ports 25Gbit Ethernet (25GBase-SR/LR optical, -CR copper)
- Up to 2 ports 40Gb Ethernet (40GBase-SR4 optical)

Storage

- Up to 40TB SLC removable SSD
- Up to 80TB MLC removable SSD
- RAID modes 0, 1 and 5
- Supported file systems: EXT4, UFS, FAT, NTFS
- Exported file systems: SMB/CIFS, NFS, AFP, FTP, HTTP and rsync
- JBOD, RAID 0, RAID 1, RAID5 support

Data Security

- HWFDE using XTS-AES 256bit (option)
- Certified FIPS 140-2 encryption inside (AES-256)
- SWFDE using XTS-AES 256bit (option)
- Write protected memory (option)

Monitoring

- SMART
- SNMP
- Syslog

Front Panel Interfaces

- Removable storage bay

Rear Panel Interfaces

- 1x Power
- 1x GPS antenna input

Operating Temperature

- 0°C to +50°C standard temperature
- -40°C to +71/75°C extended temperature (AC/CC)

Shock and Vibration

- Tested to MIL-STD-810

Altitude

- -1500 to 40 000 ft (AC)*
- -1500 to 60 000 ft (CC)*

EMI/RFI

- Tested to MIL-STD-461

Humidity

- Up to 100%, condensing

Size, Weight & Power

- 6.2 x 7.9 x 4.1"***
- 7.6 x 13.4 x 3.5"***
- Weight: 8.16 lb (configuration dependent)
- Power: from 5W idle (configuration dependent)

Power Supply

- 16-40V DC (nominal)

* Contact factory for high altitude options

** Conduction cooled, small form factor

*** Conduction cooled, half rack

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.

RELATED PRODUCTS

- Offload Systems
- XSR RDM
- Titan 40Gb Ethernet XMC
- Titan 25Gb Ethernet XMC
- Titan 10Gb Ethernet XMC
- Titan Gigabit Ethernet XMC



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