

# Galleon Rugged NAS

## High Performance Network Attached Storage

### KEY FEATURES

- Ultra small: 150 x 170 x 100 mm
- 4x Gigabit Ethernet ports (copper)
- Optional dual 10Gbit Ethernet ports (optical)
- WLAN
- SMB/CIFS, NFS, AFP, FTP, HTTP and RSYNC
- WEB GUI for easy setup and administration
- RAID 0, 1 & 5 support
- AES Disk Encryption
- GPS synchronized RTC
- Up to 1TB Removable SLC or 2TB MLC Solid State Storage
- Scalable up to 10TB Removable SLC Solid State Storage
- Wide Input 9-36V DC Power (48V optional)
- Rugged Air and Conduction Cooled Design
- MIL-STD-810

### APPLICATIONS

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

### BENEFITS

- SWaP Optimized
- High Performance
- Flexible and Scalable
- Rugged design



## Ultra Small Rugged NAS

The Galleon Rugged NAS offers superior performance in an ultra small form factor. Removable storage ensures increased data security when the system is not in use, and 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.

Utilizing the powerful Intel® Core™ i7 or Core™ 2 Duo processors, the Galleon Rugged NAS is capable of handling a high number of simultaneous connections without compromising

system performance. Both optical 10Gb Ethernet and traditional 1000Base-T copper connections are available to suit existing infrastructure.

The unit can be delivered with Windows Embedded Storage Server or FreeNAS SW preconfigured to suit your application needs.

Local and remote server administration and maintenance is very easy through the intuitive WEB GUI or windows remote administration.



**galleon**  
embedded computing

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## High Performance Network Attached Storage

### Galleon Rugged NAS In a Nutshell

The Galleon Rugged NAS represents a breakthrough in ultra small, high performance Network Attached Storage for harsh environments. Even the smallest unit offers up to 2TB removable solid state storage in a 150 x 170 x 100 mm conduction cooled chassis.

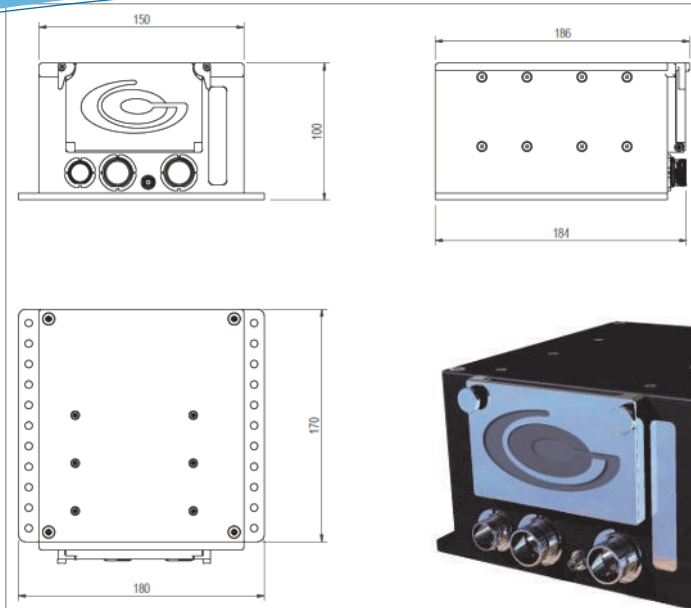
For further expansion, up to 10TB of Solid State Storage in removable 2TB expansion modules is supported.

Up to four Gigabit Ethernet connections are available on Glenair MightyMouse connectors in the front panel.

Optional dual channel 10Gb Ethernet on SFP+ Fiber connectors is available for high bandwidth applications and/or EMI in noisy environments where copper connections are not suitable.

The powerful Intel® Core™ i7 CPU offers high performance processing power for protocol offload, encryption and demanding custom applications.

Easy setup and administration through intuitive WEB GUI.



## Technical Specification

### Network

- 4x Intel® 82574 Gigabit Ethernet Controllers
- 1x Intel® 82577 Gigabit Ethernet Controller
- 2x Intel® 82599ES dual 10Gb Ethernet Controller (optional)
- WLAN (optional)

### Storage

- Up to 1TB SLC Solid State Disks
- Up to 2TB MLC Solid State Disks
- Removable Disk Unit
- RAID modes 0, 1 and 5
- Supported file systems: UFS, Ext2/3, FAT, NTFS
- Exported file systems: SMB/CIFS, NFS, AFP, FTP, HTTP and RSYNC
- ZFS
- Disk encryption (AES)

### Monitoring

- SMART
- Email alert
- SNMP
- Syslog

### Front Panel Interfaces

- 4x Gigabit Ethernet
- 1x Power

### Optional Interfaces

- 1x GPS Antenna Input
- 1x WLAN Antenna
- 2x SFP+ Optical Gigabit Ethernet
- 1x PMC/XMC Expansion

### Note:

Available interfaces vary with model and environmental specification. Contact factory for configuration options.

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### Operating Temperature

- 0°C to +50°C Standard temperature (AC/CC)
- -40°C to +85°C Extended temperature (CC)
- -55°C to +85°C Storage temperature

### Shock & Vibration

- MIL-STD-810 compliant

### Altitude

- Altitude: -1500 to 40 000\* ft

### EMI/RFI

- MIL-STD-461F compliant

### Humidity

- Up to 95%

### Size, Weight & Power

- Size: 150 x 170 x 100mm (5.9 x 6.7 x 3.9") (CC base unit not including mounting plate and connectors):
- Weight: 3kg (minimum configuration)
- Power (idle): 30W
- Power (max load): 50W

### Power Supply

- 12/24V DC (9-36V DC Wide Input)
- 48V DC (36-75V DC Wide Input)

\* Contact factory for high altitude options.



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