Galleon G1 microNAS
High Performance Network Attached Storage

The Galleon G1 microNAS offers superior performance in an ultra 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 Galleon G1 microNAS is capable of handling a high number of simultaneous connections without compromising system performance. Four channels of Gigabit Ethernet connections are available for multi-channel high bandwidth applications. An optional 10GBase-T can also be added.

The unit can be delivered with Windows Embedded Storage Server or Linux Enterprise Server 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.

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

- Quad Gigabit Ethernet ports
- 1x 10GbE (10GBase-T) port
- SMB/CIFS, NFS, AFP, FTP, HTTP and rsync
- RAID 0 and 1 support
- GPS unit for date and time synchronization
- Up to 20TB SLC or 40TB MLC removable solid-state storage
- 12V-48V DC power
- Rugged conduction or air cooled designs
- Windows or Linux
- Tested to:
  - MIL-STD-810
  - MIL-STD-461
  - MIL-STD-704

APPLICATIONS

- UAVs, UGVs
- Surveillance
- Flight management
- Map systems
- Cockpit information systems
- Data loader systems
- Airborne servers

BENEFITS

- SWaP optimized
- High performance
- Flexible and scalable
- Rugged design
- Ultra lightweight
- Low power
- High bandwidth

Rear Panel Recording Interfaces
- 4x 1000BASE-T Gigabit Ethernet
- 1x 10GBase-T 10GbE (option)
- 1x VGA
- 2x USB2.0
- 2x RS232
- 1x Power
- 1x GPS antenna input option

Storage
- Up to 40TB removable MLC FLASH
- Up to 20TB removable SLC FLASH
- 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

Monitoring
- SMART
- SNMP
- Syslog

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)

Front Panel Interfaces
- Removable storage bay

I/O Expansion
- MiniPCI Express expansion site

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

Shock and Vibration
- Tested to MIL-STD-810

EMI/RFI
- Tested to MIL-STD-461

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

Humidity
- Up to 100%, condensing

Size, Weight & Power
- 83 x 63 x 185mm / 3.2 x 2.5 x 7.2"
- Conduction cooled and natural convection cooled
- Weight: < 1.2 kg/2.6 lb (incl storage)
- Power: 10W-35W (configuration dependent)

Power Supply
- 12V-48V DC (nominal)
- 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.

RELATED PRODUCTS

- Offload Systems
- XSR Rugged NAS
- G1 USB3 Docking station
- G1 Removable Data Module
- Galleon Extended Warranty and Support

galleon
embedded computing

Galleon Embedded Computing

Oslo, Norway:	+47 2108 0290
London, UK:	+44 7501 378664
Munich, Germany:	+49 89 4520508 0
Katy, TX, USA:	+1 (832) 437-1993

www.galleonec.com   info@galleonec.com