

# 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 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.

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

- Quad Gigabit Ethernet ports
- 1x 10GbE 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 SSD
- 16V-50V DC power
- Windows or Linux
- Tested to MIL-STD-810, MIL-STD-461 and 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

## TECHNICAL SPECIFICATION



### Rear Panel Recording Interfaces

- 4x 1000BASE-T
- 1x 10GBase-T (option)
- 1x VGA
- 2x USB2.0
- 2x RS232
- 1x Power
- 1x GPS antenna input (option)

### Storage

- Up to 40TB removable MLC SSD
- Up to 20TB removable SLC SSD
- RAID modes 0 and 1
- Supported file systems: EXT4, UFS, FAT, NTFS
- Exported file systems: SMB/CIFS, NFS, AFP, FTP, HTTP and rsync
- JBOD, RAID 0, RAID 1 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)

### Operating Temperature

- 0°C to +50°C standard temperature
- -40°C to +75°C extended temperature

### Shock and Vibration

- Tested to MIL-STD-810

### Altitude

- -1500 to 60 000 ft\*

### EMI/RFI

- Tested to MIL-STD-461

### Humidity

- Up to 100%, condensing

### Size, Weight & Power

- 83 x 63 x 185 mm
- Conduction cooled and natural convection cooled
- Weight: < 1.2 kg (incl storage)
- Power: 20W-35W (configuration dependent)

### Power Supply

- 16-50V 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

- XSR Rugged NAS
- G1 Docking station
- G1 Removable Data Module



**SPECTRA AEROSPACE & DEFENSE**

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