

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.

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 (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
- 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 conduction or natural convection cooled designs
- Ultra lightweight
- Low power

TECHNICAL SPECIFICATION



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 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

- 3.2 x 2.5 x 7.2"
- Conduction cooled and natural convection cooled
- Weight: < 2.6 lb (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 USB3 Docking station
- G1 Removable Data Module



Galleon Embedded Computing

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