GALLEON G1 microRecorder
Removable Storage — High Performance

The Galleon G1 microRecorder is a powerful Gigabit Ethernet Recorder in an extremely small enclosure. It is designed to meet the most severe environmental conditions without compromising on functionality and performance. The Size, Weight and Power (SWaP) optimized design makes it ideal for use in small unmanned aerial and ground systems, as well as other space and power constrained applications.

The G1 microRecorder is capable of capturing up to four Gigabit Ethernet ports at full line rate, at close to 120MB/s per Ethernet port. Fitted with up to 40TB of Industrial Grade MLC storage or up to 20TB Military Grade SLC storage, the removable data cartridges allows very short turnaround times between missions and easy transport of data between the vehicle or aircraft and the command station or lab where the data is analysed or distributed.

The unit records to Linux EXT4 file system supporting JBOD, RAID 0 and RAID 1 modes. Docking stations allows instant access to the recorded data on any laptop or workstation with a USB3 connection. With Galleon's high performance data recorder software, the unit can be configured as a video over Ethernet or general UDP data recorder capable of streaming up to 500Mbytes/sec to solid-state storage.

The G1 microRecorder is ideal for surveillance, reconnaissance, intelligence and flight test applications where huge amounts of data must be collected and stored. Accurate timestamping of individual data channels makes the microRecorder ideal for sensor fusion systems where data from multiple sensors must be synchronized. The removable cartridges with optional AES 256-bit encryption makes data management and transport a risk-free and easy task.

Galleon Embedded Computing's quality management system is certified to Aerospace Standard AS/EN 9100:2009 and ISO 9001:2008.

Quad Gb Ethernet Recorder at less than 3.3 lb!

KEY FEATURES
- Quad Gigabit Ethernet ports
- Up to 40TB of removable solid-state storage
- 12V-48V DC power
- Intel® microServer-C2758 high performance octal core CPU
- 16GB DDR3 SDRAM with ECC
- Rugged air- and conduction cooled designs
- Tested to MIL-STD-810, MIL-STD-461 and MIL-STD-704

APPLICATIONS
- UAS data recorder
- Vehicle data recorder
- Multi-sensor recorder
- Flight test data recorder
- Surveillance, intelligence, reconnaissance

BENEFITS
- Optimized for SWaP-C
- Ultra lightweight
- Low power
- High performance
- High bandwidth

Rear Panel Recording Interfaces
• 4x 1000BASE-T Gigabit Ethernet

Storage
• Removable storage unit
  • Up to 40TB removable MLC FLASH
  • Up to 20TB removable SLC FLASH
• Non-removable storage for OS installation
  • Up to 256GB SLC FLASH

Processor
• Intel® C2758 Octal Core CPU @ 2.4GHz
• 16GB DDR3 SDRAM with ECC

File System
• Linux EXT4
• JBOD, RAID 0, RAID 1 support

I/O Expansion
• MiniPCI Express expansion site

Interfaces
• 4x Gigabit Ethernet
• 1x VGA
• 2x USB 2.0
• 2x RS232
• 1x Power
• 1x GPS antenna input option

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

EMI/RFI
• Tested to MIL-STD-461

Altitude
• -1500 to 40 000 ft (AC)*

Humidity
• Up to 100%, condensing

Size, Weight & Power
• Ultra-Small Form Factor:
  • 83 x 63 x 185mm/3.2 x 2.5 x 7.2"
• Conduction cooled and natural convection cooled
• Weight: < 1.5 kg/3.3 lb
• 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

• CP50 Control Panel
• Offload Systems
• G1 Removable Data Module
• Galleon Extended Warranty and Support

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