Rugged interconnect™
TECHNOLOGIES
Technologies evolve, our commitment remains

Quad Gb Ethernet Recorder at less than 1kg!

KEY FEATURES

- Quad Gigabit Ethernet Ports
- Up to 10TB of removable Solid State Storage
- Intel® microServer-C2738 High Performance Octal Core CPU
- 8GB DDR3 SDRAM with ECC
- 28V or 12V DC Power
- Rugged Conduction Cooled and Air Cooled Designs
- Tested to:
  - MIL-STD-810
  - MIL-STD-461

APPLICATIONS

- UAS Data Recorder
- Vehicle Data Recorder
- Multi-Sensor Recorder
- Flight Test Data Recorder

BENEFITS

- Optimized for Size, Weight and Power (SWaP)
- Ultra Lightweight
- Low Power
- High Performance
- High Bandwidth

The Galleon 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 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 10 TB of Industrial grade MLC storage or up to 2 TB 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 analyzed or distributed.

The unit records to Linux EXT4 file system supporting JBOD, RAID 0 and RAID 1 modes.

Passive docking stations allows instant access to the recorded data on any laptop or workstation with a USB3 or eSATA 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 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

Galleon Rugged microRecorder
Rugged - Ultra Small - High Performance

µRecorder Highlights

The Galleon family of rugged, microRecorders are targeted at applications where ultra-small size, weight and power are key requirements.

The microServer runs Galleon's Ethernet recorder software to record streaming Ethernet data such as video or audio over Ethernet, telemetry data, LIDAR data, HD imagery, etc. The powerful octal core Intel microServer architecture is capable of capturing and storing over 600Mbytes per second of streaming data from the four Gigabit Ethernet ports and other data sources such as USB and RS232.

In addition to the dedicated solid state system disk, up to 10TB removable FLASH storage is supported.

The server has four 1Gb Ethernet ports for dedicated high speed communication with multiple clients.

The microRecorder series is utilizing the latest generation Intel® micro Server C2000 series octal Core processors running at up to 2.4GHz.

Technical Specification

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

Storage
- Removable Storage Unit
  ⇒ Up to 10TB removable MLC FLASH
  ⇒ Up to 2TB removable SLC FLASH
- Non-removable Storage for OS installation
  ⇒ Up to 256GB SLC FLASH

Processor
- Intel® C2738 Octal Core CPU @ 2.4GHz.
- 8GB DDR3 SDRAM with ECC

File System
- Linux EXT4
- JBOD, RAID0 and RAID1 support

Interfaces
- 4x Gigabit Ethernet
- 1x VGA
- 2x USB 2.0
- 2x RS232
- 1x 12V or 28V DC Power Input

I/O Expansion
- MiniPCI Express Expansion Site

Operating Temperature
- 0°C to +50°C Standard temperature
- -20°C to +65°C Extended temperature
- -40°C to +71/75°C Extended temperature (AC/CC)

Shock & Vibration
- Tested to MIL-STD-810

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

EMI/RFI
- Tested to MIL-STD-461

Humidity
- Up to 100%, Condensing

Size, Weight & Power
- Ultra Small Form Factor
  83x63x185mm (3.2x2.5x7.2", W x H x L)
- Conduction Cooled and Natural Convection Cooled
- Weight: < 1kg
- Power: < 15W (configuration dependent)

Power Supply
- 28V or 12V DC

Galleon Embedded Computing

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