

GALLEON XSR GIGABIT ETHERNET RECORDER

Rugged – Small – High Performance

The Galleon XSR Rugged Gigabit Ethernet Data Recorder offers superior performance in a small form factor, and is capable of capturing data from up to thirteen separate Gigabit Ethernet interfaces. Each Gigabit Ethernet interface can be recorded up at full speed storing UDP or TCP payload data.

The extremely rugged and Size, Weight, Power and Cost (SWaP-C) optimized design makes it ideal for deployed applications in unmanned aerial systems, test pods, ground vehicles, etc. Rugged miniature 38999 connectors for all interfaces ensure reliable operation under all conditions.

Removable storage enables short ground times for airborne applications and instant access to recorded data in the ground access system without the need to download the

recorded data over a slow drain interface. Industry standard solid-state drives are used to benefit from the ever increasing storage densities and cost reductions as the technology evolves.

The recorder has a simple C++ API for remote control over a Gigabit Ethernet connection. Optical AES 256-bit hardware encryption 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 9100:2016 and ISO 9001:2015.

Gigabit Ethernet Recorder



KEY FEATURES

- Small: 156 x 175 x 103mm (conduction cooled)
- Up to 13x Intel® GbE Controllers
- Up to 40TB SLC or 80TB MLC removable SSD
- Optional AES-256 encryption
- GPS unit for time/date synchronization
- Wide input 16-40V DC power
- Timestamping of recorded data
- XMC Site for flexible I/O Expansion (analog, sFPDP, 1553, HD video, custom, etc.)
- Rugged conduction or air cooled designs
- MIL-STD-810
- MIL-STD-461

APPLICATIONS

- UAVs, UGVs
- Surveillance
- HD video recording
- Sensor development

BENEFITS

- SWaP-C
- High bandwidth
- High storage density
- Flexible and scalable
- Rugged design

TECHNICAL SPECIFICATION



Network

- Up to 13 Intel® GbE Controllers for high-speed data acquisition

Storage

- Up to 40TB SLC removable SSD
- Up to 80TB MLC SSD
- Optional AES-256 encryption

Rear Panel Interfaces

- 5x Gigabit Ethernet
- 1x Power
- 1x GPS antenna input

Front Panel Interfaces

- Removable storage bay

I/O Expansion

- x8 PCI Express 2.0 XMC site

GPS

- On-board GPS unit
- Time and date synchronization through GPS or NTP service

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 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

- 157 x 201 x 103 mm (6.2 x 7.9 x 4.1")**
- 194 x 341 x 89 mm (7.6 x 13.4 x 3.5")***
- Weight: 8.8 lb (minimum configuration)
- Power, idle: 45W
- Power, max load: 65W

Power Supply

- 16-40V DC wide Input

*Contact factory for high altitude options

**9 channel, conduction cooled, small form factor

***13 channel, conduction cooled, half rack

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
- XSR-RDM Data Cartridges
- Titan GbE XMC
- Galleon Extended Warranty and Support



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