Galleon Gigabit Ethernet Recorder

Rugged - Ultra Small - High Performance

KEY FEATURES

- Ultra small: 150 x 170 x 100 mm
- 5x Intel® 82574 Gigabit Ethernet Controllers for high speed data acquisition
- Up to 1.6TB (SLC) Removable Solid State Storage
- Up to 16TB (SLC) Removable Solid State Storage Expansion
- Onboard GPS for high resolution timestamping of recorded data
- XMC/PMC Sites for flexible I/O Expansion (analog, sFPDP, 1553, HD video, custom, etc)
- Wide Input 9-36V DC Power (48V optional)
- Rugged Conduction Cooled and Fanless Air Cooled Design
- MIL-STD-810F

APPLICATIONS

- UAVs, UGVs
- Surveillance
- HD Video Recording
- Sensor Development

BENEFITS

- Optimized for Size, Weight and Power (SWaP)
- High Bandwidth
- High Storage Density
- Flexible and Scalable
- Rugged design

The World's Smallest Gigabit Ethernet Recorder!

The XSR-GE is a very compact, high performance ready to run Gigabit Ethernet Recorder. Key features include:

- Ultra small: External dimensions only 150 x 170 x 100mm
- 5x Intel® 82574L Gigabit Ethernet Controllers
- 1.6TB (SLC) Solid State Storage in field exchangeable modules
- Rugged Conduction Cooled Design

The XSR Rugged Gigabit Ethernet Data Recorder is designed to meet the most severe environmental conditions without compromising on functionality and performance. Its SWaP optimized design makes it ideal for use in small Unmanned Aerial and Ground Vehicles, Surveillance, High Definition Video Applications, Sensor Development and Testing, etc.

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XSR-GE In a Nutshell

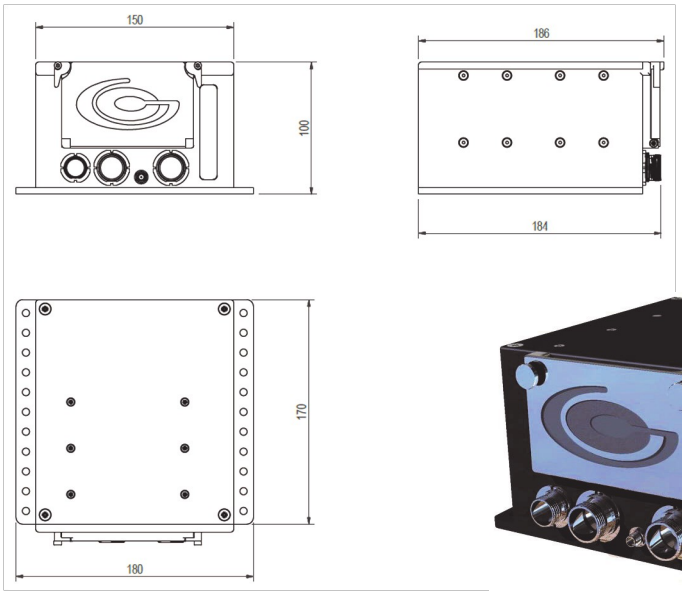
The XSR-GE family of rugged data recorders represents a breakthrough in ultra small, high performance data recording. 1.6 TB removable solid state SLC Flash storage in a 150 x 170 x 100 mm conduction cooled unit is unmatched in the industry.

Although designed to be a ready to run COTS Gigabit Ethernet Data Recorder, the XSR-GE is extremely flexible and expandable. The unit supports up to 5TB SLC Flash
Flash Storage in removable expansion modules.

Up to four Gigabit Ethernet connections are available on Glenair MightyMouse connectors in the front panel. Each Gigabit Ethernet interface can be recorded at wire-speed with or without protocol decoding.

For further expansion, two XMC/PMC sites with x8 PCI Express 2.0 and 133MHz 64-bit PCI-X interface are available.

The onboard GPS unit provides accurate timing information for timestamping of recorded mission data.



Technical Specification

Network
- 4x Intel® 82574 Gigabit Ethernet Controllers for high speed Ethernet Recording
- 1x Intel® 82577 Gigabit Ethernet Controller for Control Interface

Storage
- 1x Solid State System Disk (up to 256GB)
- 4x 2.5” Solid State Disks in Removable Unit supporting 9.5mm disks
    - Up to 1.6TB removable SLC FLASH

Timestamping
- High precision GPS Position and Timing Data
- 10MHz Reference Clock
- 1pps Sync Pulse
- RF Interface to External Antenna

Front Panel Interfaces
- 5x Gigabit Ethernet
- 1x Power
- 1x GPS Antenna

I/O Expansion
- One x8 PCI Express 2.0 XMC Site
- One x4 PCI Express 2.0 or 133MHz 64-bit PCI-X XMC/PMC Site
- One MiniPCI Express Expansion Site (supporting x1 PCI Express and USB 2.0)

Operating Temperature
- 0°C to +50°C Standard temperature (AC/CC)
- -40°C to +85°C Extended temperature (CC)
- -55°C to +85°C Storage temperature
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Shock & Vibration
- MIL-STD-810 compliant

Altitude
- Altitude: -1500 to 40 000* ft

EMI/RFI
- MIL-STD-461F compliant

Humidity
- Up to 95%

Size, Weight & Power
- Size: 150 x 170 x 100mm (5.9 x 6.7 x 3.9”) (CC base unit not including mounting plate and connectors):
- Weight: 4.0kg (Minimum configuration)
- Power (idle): 30W
- Power (max load): 50W

Power Supply
- 12/24/28V DC (9-36V DC Wide Input)
- 48V DC (36-75V DC Wide Input)

* Contact factory for high altitude options.

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All data subject to change without notice.