GALLEON XSR2 SFPDP RECORDER
Up to 8 Channels — Extremely Rugged

The Galleon XSR Rugged Serial FPDP Recorder offers superior performance in an ultra small form factor and is capable of capturing up to eight Serial FPDP channels at link speeds up to 4.25Gbaud. Additonal Ethernet interfaces (1GBE and 10GBE provide additional sideband recording options)

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 MIL-DTL-38999 optical connections ensure reliable operation for deployed applications, while Duplex LC provides backwards compatibility with existing installations.

Removable storage ensures 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 dedicated Gigabit Ethernet connection. Optional AES 256–bit hardware encryption provides a high level of data security with flexible key loading options.

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

SERIAL FPDP RECORDER

FIPS 140-2 Inside

KEY FEATURES

- Small: 156 x 175 x 103mm (4 channel, conduction cooled)
- Up to 8 channel Serial FPDP
- VITA 17.1–2003 (R2009) compliant
- 1.0625, 2.125, 2.5, 3.125 and 4.25 Gbaud supported
- Duplex LC or rugged MIL–DTL–38999 expanded beam optical connectors
- Up to 80TB removable SSD
- Up to 2Gbytes/sec recording bandwidth
- Optional AES-256 encryption
- GPS unit for date and time synchronization
- Timestamping of recorded data
- Wide input 16 to 40V DC power

APPLICATIONS

- Missile testing
- Radar development and data recording
- High speed sensor data capture
- Geological survey and seismic
- Physics research

BENEFITS

- SWaP-C optimized
- High performance
- Flexible and scalable
- Rugged design

Serial FPDP
- Up to 8 channels
- 1.0625, 2.125, 2.5, 3.125 And 4.25 Gbaud link speed supported
- Vita 17.1-2003 (R2009) compliant
- MIL-38999 expanded beam optical interfaces

Storage
- Up to 80TB removable solid-state disks
- Data Security Options - AES256 Encrpytion (HW or SW), Fast/Secure Erase

Rear Panel Interfaces
- Up to 8x optical serial FPDP
- 5x GbE [1]
- 2x 10GbE (10GBase-T) - Optional
- 1x VGA
- Up to 3 USB
- 4x GPIO

Front Panel Interfaces
- Removable storage bay

Time Synchronization
- Time/date synchronization with GPS or NTP
- On-board GPS unit

Operating Temperature
- 0°C to +50°C standard temp.
- -20°C to +65°C extended temp. (AC)
- -40°C to +71/75°C extended temp. (CC)

Shock and Vibration
- Tested to MIL-STD-810

Altitude
- -1500 to 40 000 ft (AC) or 60 000ft (CC)[2]

EMI/RFI
- Tested to MIL-STD-461

Humidity
- Up to 100%, condensing

Size, Weight & Power
- 157 x 201 x 103mm (6.2 x 7.9 x 4.1")[3]
- 194 x 341 x 89mm (7.6 x 13.4 x 3.5")[4]
- Weight: 5-8kg (configuration dependent)
- Power, recording 4Ch sFPDP: 65W (typical)

Power Supply
- 16-40V DC wide input

[1] Only 3 GbE if 10GbE option used
[2] Contact factory for high altitude options
[3] 4 channel, conduction cooled, small form factor (SFF) system
[4] 8 channel, conduction cooled, half rack (HR) system

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 sFPDP XMC
- Galleon Extended Warranty and Support

Galleon Embedded Computing

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