

GALLEON XSR HD VIDEO RECORDER

Rugged – Small – High Performance

The XSR HD Video Recorder supports up to eight HD video channels at 1080p60 resolution. Channels can be individually configured to record compressed and/or uncompressed video at full resolution. Input channels can be monitored live over Ethernet while recording. Simultaneous playback and recording is supported for all channels. Low latency bypass is also available per channel.

The design concept of XSR is based on the use of COTS Open Architecture modules, that allow the unit to make use of the latest generation Intel Core-i7 and Xeon processors as well as other elements of the product. This enables the XSR to keep pace with increasing technology advancement and provides a key mitigation strategy for Obsolescence Management, which helps to protect the user’s design for 10 years or more. The extremely rugged design makes it ideal for deployed applications in Rugged or Harsh environments.

Removable storage enables instant access to recorded data in a standard PC with a simple USB 3.0 or SATA connected docking station without the need to download the recorded data over a slow data drain interface. Industry standard solid-state drives are used to benefit from the ever increasing storage densities and cost reductions as the technology evolves. No data conversion is necessary, the video files can be played direct by a standard player like Windows media player or VLC. Currently up to 80TB of solid-state storage is offered per removable data cartridge, sufficient for very long mission duration even when recording uncompressed HD video.

The recorder has a simple C++ API for remote control over a separate Gigabit Ethernet connection. Video control is also available using the optional CP50 Galleon Control Panel product.

Galleon Embedded Computing’s quality management system is certified to Aerospace Standard AS/EN 9100:2016 and ISO 9001:2015.

POWERFUL HD VIDEO RECORDING AND PROCESSING



KEY FEATURES

- Up to 8 full HD video channels
- Uncompressed or H.264 compression
- Up to 80TB removable SSD
- Small: 157x201x103mm
- Simultaneous recording and streaming of live video feed
- Wide input 16-40V DC power
- On-board GPS for time synchronization
- Optional AES 256-bit hardware encryption
- Rugged conduction-cooled and air-cooled designs
- MIL-STD-810
- MIL-STD-461
- DO-160

APPLICATIONS

- Surveillance
- Intelligence
- Reconnaissance
- SAR
- Unmanned systems
- Flight test

BENEFITS

- Optimized SWaP-C
- High bandwidth
- High storage density
- Flexible and scalable
- Rugged and tested design
- COTS Open Architecture

TECHNICAL SPECIFICATION



Audio Video I/O

- Up to 8x HD video (3G-SDI, HD-SDI)
- Up to 8x SD video (SDI, composite, RS-170, etc.)
- Up to 8x audio inputs

Processor

- Intel® Core™-i7, Quad Core
- Intel® Xeon® E3, Quad Core
- Up to 32GB DDR4 SDRAM with ECC

Storage

- Up to 80TB removable data cartridge

Other I/O

- 5x 1000BASE-T Ethernet
- 1x power, 16-40V DC
- 3x USB 2.0
- 2x RS232
- 1x GPS antenna input

Temperature

- -40°C to +71°C operational temperature
- -55°C to +85°C storage temperature

Shock and Vibration

- Tested to MIL-STD-810 and RTCA/DO-160

EMI/RFI

- Tested to MIL-STD-461

Humidity

- Up to 100%, condensing

Size, Weight & Power

- 157 x 201 x 103 mm (6.2 x 7.9 x 4.1") Small Form Factor
- 194 x 341 x 89 mm (7.6 x 13.4 x 3.5") Half Rack
- Weight: from 9.9 lb (min. configuration)
- Power (idle): 40-60W (configuration dependent)
- Power (max): 50-125W (configuration dependent)

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 Removable Data Module
- Titan GbE XMC
- Galleon Extended Warranty and Support



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