HIGH PERFORMANCE RECORDER

Removable Storage — Powerful — Rugged

The High Performance Recorder (HPR) offers superior performance in a small form factor, and it is capable of capturing UDP or TCP/IP data from up 8x 10Gb Ethernet interfaces up to 5GBytes/s recording speeds.

The removable data module (RDM) can be configured as a build option for either high performance NVME or high capacity SATA storage using rugged and reliable solid state storage. Offering industry-leading storage density, NVME RDMs offer up to 32 TB of storage and SATA RDMs offer up to 80TB of storage.
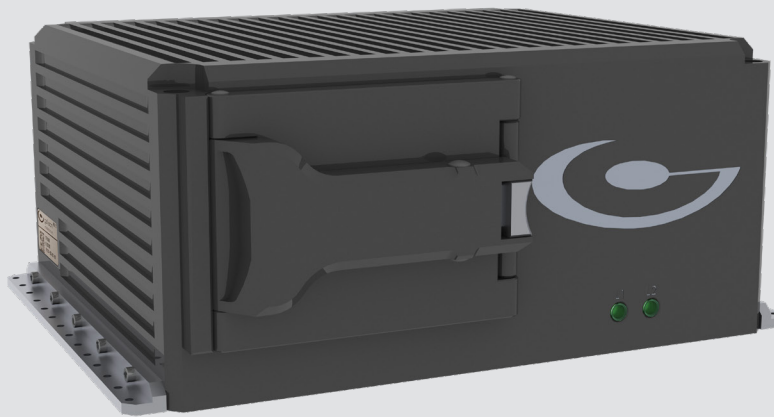
Optional Hardware Full Disk Encryption (HWFDE) is available using the AES-256 bit alogrithm implemented in FIPS 140-2 certified devices. Similarly, Software Full Disk Encryption (SWFDE) can provide a separate layer of Data at Rest protection as recommended by the NSA for the Data at Rest Commercial Solutions for Classified (CSfC).

The design concept of HPR is based on the use of COTS Open Architecture modules. This enables the HPR 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 HPR is optimized for deployed applications such as unmanned systems, pods and ground vehicles. Rugged 38999 connectors for all interfaces ensure reliable operation in all conditions. The design is Size, Weight, Power and Cost (SWaP-C) optimized.

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

POWERFUL HIGH PERFORMANCE RUGGED RECORDER

NIAP-Approved Dual-Layer Software Full Disk Encryption (SWFDE) & Hardware Full Disk Encryption (HWFDE)

KEY FEATURES

- Up to 5GBytes/s recording
- Up to 8 10GbE ports
- Up to 32 TB NVME Storage
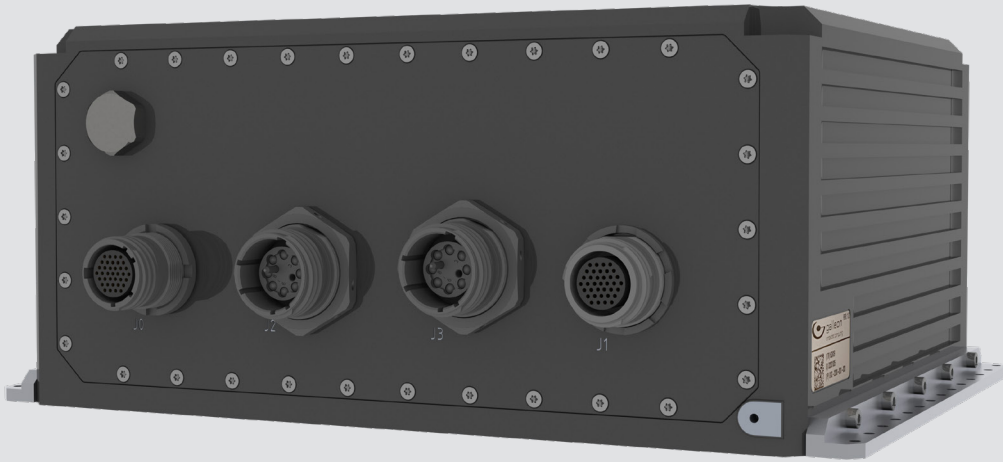- Up to 80 TB SATA Storage (option)
- Data at Rest encryption

APPLICATIONS

- Virtualization server
- Command & Control
- Enhanced Situational Awareness
- Electronic Warfare
- Integrated Sensor Systems
- Fire control

BENEFITS

- High performance
- High bandwidth
- SWaP optimized
- High capacity secure storage
- Flexible and scalable
- Rugged conduction and air cooled designs

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NIAP-Approved Dual-Layer Software Full Disk Encryption (SWFDE) & Hardware Full Disk Encryption (HWFDE)

Network
- Up to 8 Intel® 10GbE Controllers
- Dedicated Intel® GbE Controller for control interface

Storage
- Up to 32TB NVME removable FLASH
- 1 x SLC FLASH OS system disk (up to 256GB)
- Up to 80TB SATA removable FLASH (option)

I/O Expansion
- XMC with x8 PCI Express interface
- MiniPCI Express expansion site

Rear Panel Connection
- Up to 4x 10GBase-SR
- Maintenance port
- 1x Power

Operating Temperature
- 0°C to +50°C standard temperature
- -20°C to +60°C extended temperature
- -40°C to +71°C extended temperature

Shock and Vibration
- Tested to MIL-STD-810

EMI/RFI
- Tested to MIL-STD-461

Humidity
- Up to 100%, condensing

Altitude
- -1500 to 60 000 ft*

Water Resistent
- IP67 rated

Size
- Size estimate of CC box: TBD"

Weight
- Aprx.: TBD lb

Power Supply
- 16-40V DC wide input
- Tested to MIL-STD-704

* Contact factory for high altitude options

CSfC APPROVED COMPONENTS LIST
COMMERCIAL SOLUTIONS FOR CLASSIFIED

COMMON CRITERIA CERTIFIED

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.

galleon
SPECTRA AEROSPACE & DEFENSE

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