

DATA SYSTEMS



ACQUIRE & PROCESS RECORD DISTRIBUTE REPLAY

VS1610

Airborne Mission Data Recorder / Server



MISSION DATA MANAGEMENT

ENERTEC

The VS1610 is a video and ultra-high speed **data recorder / server packaged** in a rugged compact chassis.

It comes with state of the art cybersecurity features. Data are recorded in a high capacity Removable Memory Module (RMM) and can be replayed in a standard PC/Windows® environment, using specific or COTS mission debrief solutions for post mission analysis.

In addition, typically for ISR applications data can be replayed while recording on board.

Safran Data Systems offers Embedded Information Management Solutions in a variety of rugged, versatile, scalable equipment and associated services, providing efficient, reliable, and affordable resources for field/ mission data acquisition, processing, storage, exploitation and dissemination, for on board operations manned or unmanned ground, air and sea vehicles.



Fighter



ISR, Search & Rescue



Mission Data Loading & Data Transfer



Unmanned Vehicles

ULTRA-HIGH DATA RATE

Up to 32 Gbit/s

ADVANCED CYBERSECURITY FEATURES

Data encryption, user authentication

FILE SERVER CAPABILITY

User-defined media partitioning

HIGH CAPACITY RUGGED REMOVABLE MODULE

32TB

QUALIFIED FOR HARSH ENVIRONMENT

DO-160, MIL-STD-704, -461, -810

EXTENDED CONFIGURATION FLEXIBILITY

User-Configurable Concept



> TECHNICAL SPECIFICATIONS

General characteristics

Dimensions H 125 x W 146 x D 185 mm (4.92" x 5.75" x 7.28")

Weight 4.5kg (9.9 lb)

Power consumption

Performance

Recording data rate Up to 32 Gbit/s

10 Gigabit/s Ethernet

2 ports, 10GBASE-T/1000BASE-T/100BASE-TX, Ethernet data recording, Remote control, UDP broadcast, PTP (Precision Time Protocol; time code sync. IEEE 1588-2002 / IEEE 1588-2008) FTP server download function

Other Setup/Control/Remote Interfaces

Setup, User specific data 1 SD-Card slot (optional)

Serial Remote 1 channel RS232 or RS422 serial remote

Contact Remote (CR) 8 discrete input/output

Cybersecurity features

• Data At Rest (DAR) function

- > Integrated 2.0 Trusted Platform Module (TPM) for access keys generation
- > Hardware-based, providing security-related functions
- > Data encryption designed to carry out cryptographic operations
- > Support of FIPS140-2 certified SSDs

• Multiple boot source possibilities to reduce possible tampering (Removable non volatile Memory)

- > Main Unit
- > RSOD (Removable Secure Operational Disk)

• Secure Authentication

- > Insert Multi Purpose
- > Secure identification of valid MPCs
- > Enable MPC power

> REMOVABLE MEMORY MODULE

High capacity rugged removable module up to 32TB.

Possibility of multi partition for video and data storage



> OPERATION

Full motion video acquisition with user-selectable bit rates, featuring MPEG-2, H264

Fully synchronized video, audio and data recording

Built-in web server, providing

- Remote control capability
- Replay access to either recorded digital data file, with selection of video channel

Access to remote file server partition of SC145 series RMM using FTP, TFTP, NFS, SMB/CIFS

Comprehensive Built-in Test capability

Ground replay and exploitation in standard PC/Windows® environment

- video replay using third party COTS software with MPEG2 or H264
- codec IRIG 106 Chapter 10 recording format (recommended for multi-channel recording, including video and data bus)
- video/data replay using eZ viewer Software or third-party software



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