ACQUIRE & PROCESS RECORD DISTRIBUTE REPLAY

VS1510

Airborne Mission Data Recorder / Server

MISSION DATA MANAGEMENT

ENERTEC

The VS1510 is a **video & data recorder/server** packaged in a rugged compact chassis, for recording on a **Removable Memory Module (RMM)**. Recorded data 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.**

Pilot Training & Debriefing

ISR, Search & Rescue

Mission Data Loading & Data Transfer

HIGH DEFINITION VIDEO, PROCESSING & RECORDING VESA, HD-SDI, DVI	**IN–FLIGHT REPLAY WHILE RECORDING** With any e-device
HIGH CAPACITY RUGGED REMOVABLE CARTRIDGE 64GB to 2TB	**QUALIFIED FOR HARSH ENVIRONMENT** DO-160, MIL-STD-704, -461, -810

FILE SERVER CAPABILITY
User-defined media partitioning

DESIGNED TO MINIMIZE OBSOLE–SCENCE RISK AND MANAGEMENT
FPGA-based design

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MISSION DATA MANAGEMENT
VS1510

> 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)
Installation
  ARINC 404-type mounting
Interconnection .... MIL-DTL-38999 series 3
Power Supply .... 28 V DC
Consumption .... typical 35 W
Cooling .... conduction (no fan)

Interface

Multiple configurations available from following interface capabilities

Video
Up to 10 video sources
  PAL or NTSC (analog, composite/S-video/RGsB)
  STANAG 3350A (analog, RGsB, 875-line)
  VESA (analog, RGB, up to 1280x1024)
  High Def.: analog/RGsB/RGBHV, DVI-D up to 1600x1200
  SMPTE-292M [HD-SDI], 720p/1080i/1080p
  ARINC-818
Custom analog video formats on request
Scan conversion
Video replay
  User-selected video replay output for simultaneous record/replay

Audio ....Up to 4 audio sources

RS-422A (user-configurable, bidirectional)
  Remote control, per IRIG 106 chapter 6
  GPS/NMEA 0183 input, for extraction of current time, and time stamping of recorded video

Ethernet (2x 1000BaseT)
  Remote control per IRIG 106 chapter 6
  In-flight replay access to either recorded digital data file including video
  Access to built-in web server
  Access to remote file server partition
  Time update using NTP
  Ethernet access to file server using FTP, TFTP, NFS, SMB/CIFS

DISCRETE I/O
  6 inputs and 2 outputs, all configurable

AVAILABLE OPTIONS
  ARINC-429 high speed
  Redundant MIL-STD-1553B

Environmental conditions
Qualified to DO-160, MIL-STD-704, MIL-STD-461, MIL-STD-810
Operating temperature -40°C to +71°C

> REMOVABLE MEMORY MODULE

- Storage Capacity from 64GB to 2TB
- User-defined media partitioning
- Interface USB 3.0 + SATA via adapter
- 10,000 insertions/extractions
- Encryption capabilities AES 256, FIPS 140-2
- Fast secure erase
- Direct access from Windows® PC and Linux

> 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
  FAT-32 recording format (recommended for single-channel recording):
  • 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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