mercury

Avionics Data Recorder, Storage and Transfer Systems

Manage and protect critical aircraft data

Mercury's video recorder, storage and transfer systems—successfully deployed on rotary and fixed wing aircraft—provide air and operations crews with high-speed and high-capacity secure data management and exchange. Fast transfer and read speeds enable aircrews to rapidly transfer and efficiently manage pre, during and post-flight critical data.

Highlights

- Quickly and quietly upload, record, synchronize, store and transfer critical high-definition aircraft, sensor and operation data for use during current missions or for post-mission processing.

- Reduce recurring engineering costs and investment with configurable and tailorable solutions based on a common design approach

- Protect data from adversarial threats and system compromise with several encryption options, redundant zeroization and sanitization options

- Reduce lifecycle cost and simplify data sharing with lightweight, rapidly removable, upgradeable memory modules certified for high mating cycle reliability

- Minimize impact on SWaP restraints and operate in any condition with rugged, compact, lightweight and low-power form factors

Featured Product
HDVR High-Definition Video Recorder

Mercury's HDVR quickly captures and transfers aircraft, operations and sensor data at 550 Mbps transfer speeds utilizing, 1000 Mbps Ethernet ports and channels that support high-speed digital video (HSDV)

64 TB	1,000	100	NSA Type-1	10 hrs
high-capacity storage	Mbps transfer speeds	MB/sec read/write speeds	certified encryption	high-definition recording

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MODULAR, RUGGED AND AFFORDABLE

Mercury's avionics data solutions seamlessly integrate into current and future aircraft computing ecosystems to rapidly and affordably achieve a reliable and highly capable data management system. Modular design, open architectures and interchangeable memory modules speed technology refresh, enable synchronized maintenance and simplify transport.

Solutions are rugged and SWaP-optimized to minimize impact on host aircraft resources and systems while maximizing capability and availability for prolonged operations in demanding environments.
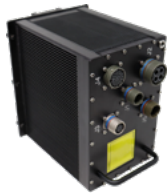
FEATURES

- Rugged, EMI resistant and high MTBF
- Intel®, AMD, ARM and Xilinx® processors and coprocessors
- NSA Type-1 and FIPS-140-2 encryption options
- Common memory modules
- Modular and scalable design
- COTS components
- Built-in-test (BIT) functionality
- Zeroization & sanitization capability
- 1 GbE Ethernet ports (10 GbE ports available)
- Meets MIL-STD: 810G, 1553, 461F, 704

APPLICATIONS

Mission and aviation planning/management

Flight control and testing

Sensor/image/display processing

Navigation

Aircraft and system health and maintenance

EO/IR surveillance

Communications

Reconnaissance (ISR)

NAS
Network Attached Storage
- 64 TB of storage capacity
- NSA Type-1 encryption
- Cross-domain capabilities

ADTS
Advanced Data Transfer System
- 1000 Mbps transfer speed
- 100 MB/sec read speeds
- FIPS-140-2 encryption

HDVR
High-Definition Video Recorder
- High-speed digital video (HSDV)
- Video (6 inputs/1 output)
- 1000 Mbps Ethernet

FAERITO®
Crash-Survivable Data and Video Recorder
- 256 GB crash-survivable memory
- ED-112 and DO-160E certified
- NSA-Type 1 encryption

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