

ADTS

Advanced Data Transfer System

Flexible, certifiable
airborne and ground
data transfer solution

- Simplify data exchange with interchangeable memory modules with up to 3 TB of storage
- Quickly access data with 1,000 Mbps transfer and 100 MB/s+ read speeds
- Protect data with optional crash survivable memory and full-disk encryption
- Low power, compact and lightweight



Mercury's ADTS advanced data transfer system is a rugged, field-proven, secure and modular system that simplifies data transfer between air and ground platforms. It consists of a ground data transfer unit, an airborne data transfer unit, interchangeable modules and a maintenance access cable.

LOWER COST WITH MODULAR DESIGN AND LONG LIFE SPAN

- Flexible modular design customizable to any platform
- 10,000-hour life span

FAST AND SIMPLIFIED DATA EXCHANGE WITH MEMORY MODULES

- Four Gigabit Ethernet ports that operate at 1,000 Mbps per channel
- Memory modules are interchangeable in both ground and aircraft data transfer units
- Three independent, hot-swappable, removable memory modules for data storage
- Three distinct colors for ease of recognition according to function

PROTECT DATA WITH DATA ZEROIZATION

- Red/black separation for mission and maintenance data
- FIPS 140-2 encryption; other encryption options available
- Support multi-level security architectures

FEATURES

- Meets information assurance requirements (S&U)
- Up to 3 TB (3 x 1 TB) memory; SSDs: Available from 128 GB, 256 GB or 1 TB
- Optional crash survivable memory Module: Up to 30 GB of storage
- Encryption: FIPS 140-2 level encryption options
- 1 SATA port – optional for crash survivable flight data recorder
- Up to 250ms of response time
- Four 1,000 BASE-TX Gigabit Ethernet connections
- External command over external communications circuit
- Manual Zeroize capabilities: via front panel switch

TECHNICAL SPECIFICATIONS

Performance Benchmarks (NFSV3)

1,000 Mbps Ethernet Benchmark:

- Bonnie++ Writing 35 MB/s
- Bonnie++ Reading 100 MB/s
- Directory w/ 1,000 files (1024k each) 15s
- 4 GB Load 1:35 Min

Video

- RS-170/NTSC
- RS-343
- DVI-D
- SMPTE 292M/424M
- Supports up to 1080p resolution
- IRIG106 CH10 compliant
- Event marking

Audio

- Analog audio recording input/output
- Digital VOIP recording up to 32+ channels
- IRIG106 CH10 compliant
- Event marking



The Advanced Data Transfer System has three interchangeable memory modules

Video/Audio Playback

- Simultaneous recording and playback
- Jump to time/Event marker
- Fast forward/reverse up to x16

SWaP

- Size: 3.37" x 5.74" x 7.92"
- Weight: <8.51 lbs (with modules populated)
- Power: Nominal 37 W; Max 52 W
- Rugged extended temperatures: -40° C to +55° C continuous; Up to +71° C for 30 minutes



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