

# Airborne Telemetry

**AirStor™**

**Extreme-Capacity, Rugged Data Storage Solution with Encryption**

## PRODUCT FEATURES

AirStor provides the following market-leading capabilities:

- Up to 12 Terabytes of network data storage in a rugged 3U rackmount chassis
- Up to 4 Gb/sec sustained write and read data rates
- Operational Temperature: -20°C to +70°C
- Operational Altitude: -15,000 to 85,000 ft
- Type 1 Encryption Optional; for data classified Top Secret/SCI and below
- Standard Government EKMS key management; for both benign and red key fill
- Cryptographic key erasure quickly renders stored data unreadable
- Capable of sharing encrypted media across multiple security domains
- 10 Gigabit or Gigabit Ethernet, Fibre Channel or iSCSI interface
- RAID 0, 1, 3, 5, 6, 10, 50 or JBOD storage
- MIL-STD-901D, MIL-STD-810F and MIL-STD-461 Compliance
- Input power: 90 to 264VAC, 40 to 440Hz
- Dimensions: 5.15"(131mm) H x 17.00"(432mm) W x 20.77"(528mm) D
- Weight: <70 lbs (32 kg) with full disk load
- Shock/vibration protected

## DESCRIPTION

L-3 TE's new AirStor™ product is a rugged, high-capacity data storage platform that acts as a data recorder or storage node in the latest networked system topologies. It delivers unprecedented storage capacity (up to 12 Terabytes per 3U rackmount chassis), exceptional data throughput and extremely low cost per Terabyte performance in a rugged, flight-worthy package.



## BENEFITS

- Provides the highest storage capacity and lowest cost per Terabyte of any available airborne storage device/recorder
- Utilizes rugged solid state drives or protected hard drives that are specially-adapted for difficult airborne environments - including shock/vibration and explosive decompression
- Allows disk type, storage capacity and RAID configuration to be individually tailored to the customer's storage requirements
- Delivers unprecedented throughput (up to 4 Gbps) for ever-expanding storage/recording requirements, including:
  - Mission, sensor or ISR data
  - Standard and/or high definition digital video
  - SAN or NAS device functionality
- Accommodates Type 1, Suite B "Data At Rest" Encryption and Decryption (as an option)
- Promotes straightforward future capacity expansion by adding more or higher-capacity disks
- Offers redundant hot-swap power, controller and storage options
- Facilitates remote system management

AirStor is further backed by L-3 TE's dedicated Customer Support organization, offering on-site training and support, a 24-hour technical support hotline, performance based logistics and guaranteed repair turnaround times. Hardware, software and services are all designed with the single-minded goal of successfully completing the mission profile.

## Rugged Design

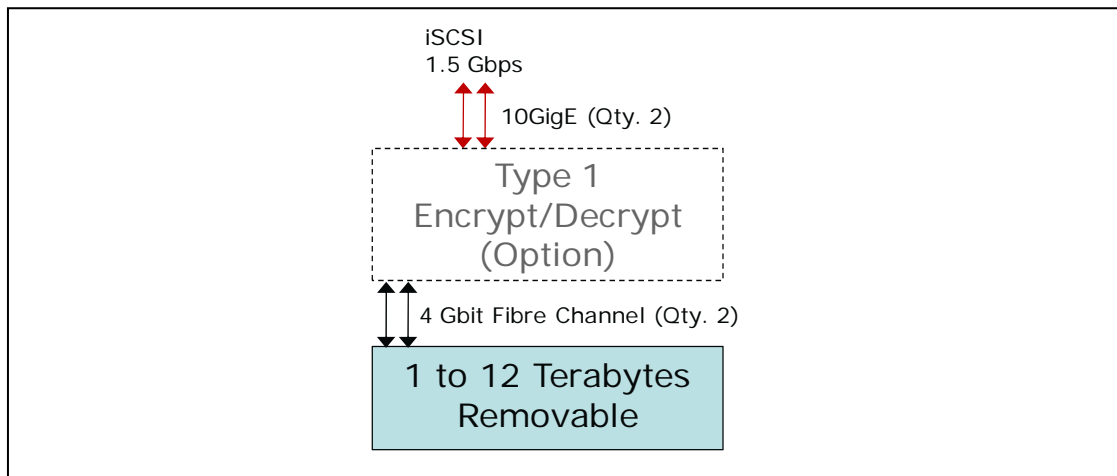
AirStor delivers all of the functional benefits of today's best IT-based data storage solutions, including low cost per Terabyte, high performance, ease-of-use, expandability and re-configurability – in a mechanical system specially-designed for the severe temperature, humidity, shock, vibration, altitude and power environments experienced in real-world military and aircraft applications. AirStor's robust computer system design provides extended temperature range operation while further addressing the "weakest link" in any airborne storage solution, the storage media itself. Unprotected hard disks will not survive at temperatures below 0°C, at altitudes above 10,000 feet, under shock or vibration, or in humidity environments common in civil and military aircraft. To solve this "hard disk problem", L-3 offers two different types of rugged storage media – solid-state drives (SSDs) and protected hard disk drives – that are specially adapted for high-speed data flow in the airborne environment. AirStor customers can choose the installed storage capacity and disk type, with the primary difference being the degree of enhanced shock and vibration resistance.

## Encryption Option

As a leader in military data encryption and decryption applications, L-3 also offers a market-leading Type 1, Suite B "Data at Rest" encryption/decryption option for AirStor. This option works seamlessly with the AirStor equipment, providing up to 2 Gbps bi-directional data throughput, and is suitable for selected FMS programs with the appropriate approvals.

## User Applications

Typical AirStor applications include ISR data recording, video and sensor data storage, Network Attached Storage (NAS), and Storage Area Network (SAN) device. Storage media are quickly and easily removable, and may be set up in any common RAID configuration with hot-swap capability.



**Typical AirStor Configuration in an ISR Data Recording System**

[www.L-3Com.com/te](http://www.L-3Com.com/te)



L-3 Communications Telemetry-East  
1515 Grundy's Lane  
Bristol, PA 19007  
Tel: 267-545-7000  
Fax: 267-545-0100



L-3 Communications Telemetry-West  
9020 Balboa Avenue  
San Diego, CA 92123-3507  
Tel: 858-694-7500, 800-351-8483  
Fax: 858-279-0693