

Airborne Telemetry

AirStor™

Extreme-Capacity, Rugged Data Storage Solution

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.



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
- 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

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:
 - Standard and/or high definition digital video
 - Storage Area Network (SAN) or Network Attached Storage (NAS) device functionality
- 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.



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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.

User Applications

Typical AirStor applications include 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.

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