

FEATURES

- Non-Volatile Solid State Memory
- Removable Memory Cartridge
- Capacity from 16 to 384 Gbytes
- Parallel I/O: ECL
- Data Rates to 100 Mbytes/sec
- Two Independent Record Channels
- Simultaneous Record/Play
- Event Marking
- Playback to Display or Data Link
- Qualified for Severe Environment
- Sophisticated Built-In-Test
- Comprehensive File Management
- Thermal Cut-Off and Power Interlocks



PRODUCT DESCRIPTION

The S/TAR™ RM-8000 Model is ideally suited for military customers requiring high performance, severe environment storage systems. Specifically designed for use in **Airborne or Ground applications**, the RM-8000 can also been utilized on Surface, SubSurface or Land Vehicles.

- Fast Random Access to Mission Data
- High Data Rates
- Two Independent Record Channels
- · Simultaneous Record/Play, Event Marking
- · Small, Light Weight, Low Power
- · Superior Reliability, Extremely High MTBF
- Low Cost of Ownership, No Preventive Maintenance

The RM-8000 provides a completely open system architecture and utilizes industry standard data and control interfaces and standard VME 6U form factor modules.

APPLICATIONS

- IMINT Radar, Electronic Warfare Data Collection
- Flight Test & System Evaluation Data Storage

PLATFORMS/SYSTEMS

- F/A-18D, F-15, F-16, RF-4
- RQ-4A Global Hawk



www.L-3Com.com/STAR

SPECIFICATIONS

Strategic / Tactical Airborne Recorder (S/TAR)™ RM-8000

PHYSICAL CHARACTERISTICS

Volume: 0.82 CuFt

Size: 9.6" H x 10.8" W x 13.7" D

244 mm H x 274 mm W x 348 mm D

Weight: 23.0 to 29.7 lbs.*

10.5 to 13.5 kgs*

Power: 75 to 105 watts*

Cooling: Conduction

*Configuration Dependent

Performance Characteristics

Storage Capacity: 16 to 384 Gbytes

Data Rate-Record: 50 MB/sec
Data-Rate Play: 50 MB/sec

Record Channels: 2
Playback Channels: 1
Event Marking: Yes
Simultaneous Record/Play: Yes
Variable Data Rate: Yes

Erase Time: (EOL): 2.5 Minutes

MTBF (AUF) 32 GB: >10,000 Hours

Bit-Error Rate: 10 -12

Special Features

Memory Partitioning

OPTIONS

Power: 28 VDC Control: RS-422

Modes: Native or Tape Emulation (DCRsi or ID-1)

ENVIRONMENTAL QUALIFICATIONS

	Operating	Non-operating
Temperature	-40°C to +71°C	-57°C to +95°C
Altitude	45,000 ft	80,000 ft
Humidity	up to 100%	0% to100%
Shock	20 G, 11 ms sawtooth	30 G, 18 ms half sine
Vibration (random)	10 Grms, 10 to 2000 Hz	12 Grms, 10 to 2000 Hz

Design Compliance

EMI/EMC: Mil-Std-461B,C,D,E Power: Mil-Std-704A.E **Environmental:** Mil-Std-810E **Random Vibration** Meth 514.4 Proc I Operating Shock Meth 516.4 Proc I **Bench Handling** Meth 514.4 Proc V **Low Temperature** Meth 502.3 Proc I&II **High Temperature** Meth 501.3 Proc I&II **Storage Temp** Meth 501.3 Proc I **Extreme Temp** Meth 502.3 Proc I **Temperature Shock** Meth 503.3

Acoustic Noise
Explosive Atmosphere
Rain (Drip)
Humidity (Aggravated)
Sand & Dust

Meth 514.4 Proc II
Meth 511.3 Proc I
Meth 506.3 Proc II
Meth 507.3 Proc III
Meth 510.3 Proc I&II

Salt Spray (Fog) ASTMG85.A

CAPABILITIES

Modes: Circular Buffer

Control: Ethernet RS-232, 1553B

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