

RM-6000F

Strategic/Tactical Airborne Recorder (S/TAR)™

The World's Only "**Combat Proven**"
High-performance Airborne Solid State Recorder
Operation Noble Eagle 2002
Operation Iraqi Freedom 2003

FEATURES

- Non-Volatile Solid State Memory
- Removable Memory Cartridge
- Capacity from 16 to 256 Gbytes
- Parallel I/O: ECL, LVDS
- Serial I/O: Fibre Channel
- STANAG 4575 protocol
- Simultaneous Record/Play
- Automated Event Marking
- Playback to Display or Data Link
- NSA Secure Erasure
- 5 Level Fault Logging
- Qualified for Severe Environment
- NATO-CIG/SS Compliant
- Sophisticated Built-In-Test
- Comprehensive File Management
- Thermal Cut-Off and Power Interlocks



www.L-3Com.com/STAR



January 2003 F-18E/F Super Hornet USS Nimitz

PRODUCT DESCRIPTION

The S/TAR™ RM-6000F Model is ideally suited for military customers requiring high performance, severe environment storage systems. Specifically designed for use in **Airborne Reconnaissance and Flight Test**, the RM-6000F can also be utilized on Surface, SubSurface or Land Vehicles.

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

The RM-6000F provides a completely open system architecture and utilizes industry standard data and control interfaces and standard VME 6U form factor modules.

APPLICATIONS

- Reconnaissance Sensor Data Collection
- Flight Test & System Evaluation Data Storage
- Data Buffering and Data Flow Management

PLATFORMS/SYSTEMS

- F/A-18 E/F Super Hornet – SHARed Reconnaissance Pod (SHARP)
- Tactical Input Segment (TIS)
- Common Imagery Processor (CIP)
- F/A-18D Radar Testing
- Distributed Common Ground System (DCGS)

SPECIFICATIONS

Strategic / Tactical Airborne Recorder (S/TAR)TM RM-6000F

PHYSICAL CHARACTERISTICS

Volume: 0.82 CuFt
Size: 6.8" H x 12.2" W x 17.0" D
173 mm H x 310 mm W x 432 mm D
Weight: 29.5 to 33.5 lbs.*
13.4 to 15.2 kgs*
Power: 84 to 92 watts*
Cooling: Conduction
**Configuration Dependent*

PERFORMANCE CHARACTERISTICS

Storage Capacity: 16 to 256 Gbytes
Data Rate-Record: 50 MB/sec
Data-Rate Play: 50 MB/sec
Record Channels: 1
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

Elapsed Time Meter
EMI Connector Cover

OPTIONS

Power: 28 VDC or 115 VAC 47-400 Hz
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 (non-condensing)	up to 100%	0% to 100%
Shock	Up to 142 G *	30 G, 18 ms half sine
Vibration (random)	7.8 Grms, 12 to 2000 Hz	8.3 Grms, 12 to 2000 Hz

* F-18 Tailored Spectrum

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
Temp-Altitude	Meth 520.1 Proc III
Storage Temp	Meth 501.3 Proc I
Extreme Temp	Meth 502.3 Proc I
Temperature Shock	Meth 503.3
Acoustic Noise	Meth 514.4 Proc II
Explosive Atmosphere	Meth 511.3 Proc I
Rain (Drip)	Meth 506.3 Proc II
Humidity (Aggravated)	Meth 507.3 Proc III
Sand & Dust	Meth 510.3 Proc I&II
Salt Spray (Fog)	ASTM G 85.A4

CAPABILITIES

Modes: Dual Channel, Circular Buffer
Control: Ethernet, RS-232, 1553B

For Additional Information Contact:

Dave Micha - S/TAR Product Manager
L-3 Communication Systems - East
One Federal Street, Camden, NJ 08103
Phone: (856) 338-2377
Fax: (856) 338-3124
E-mail: david.micha@L-3Com.com

Chris Duckling - Business Development Europe
Many Oaks, 39 Collington Lane West
Bexhill-on-sea
E.Sussex
TN39 3TD, England
Telephone: +44-1424-845-384
Mobile: +44-7946-386-392
E-mail: chris@manyoaks.co.uk



communications
Communication Systems-East