

eSRVIVR® — ENCRYPTED VOICE & DATA RECORDER



Innovative Data Acquisition and Flight Data Recording

L3's SRVIVR® family of Cockpit Voice Flight Data Recorders (CVFDR) has provided the aviation marketplace with the latest in recorder technology offering reduced size, lighter weight and lower power and the functionality of a Flight Data Acquisition Unit (FDAU) qualified to the requirements of MIL-STD-810, MIL-STD-461 and MIL-STD-704. The new eSRVIVR CVFDR offers FIPS-140-2 encryption for those applications that require the security of important data.



Weighing a nominal 7 pounds, the SRVIVR family of CVFDRs are available as a CVR, FDR or combination recorder. They can be configured for specific aircraft requirements where there are a combination of digital and analog/discrete inputs as well as audio recording and rotor speed. For added data security eSRVIVR offers optional *FIPS-140-2 Validated* encryption to Level 2.

The recorder's small size and lighter weight, combined with a mini-FDAU, provide enhanced capability in a single Line Replaceable Unit (LRU). This product allows for the elimination of multiple LRUs and associated wiring and hardware. By combining a configurable architecture along with performance and crash survivability that meets most military applications as well as FIPS-140-2 encryption, SRVIVR and eSRVIVR are ideal for aircraft retrofit and upgrade programs.

INTERFACES

Available aircraft interfaces include:

- ARINC 429
- ARINC 717
- ARINC 777 RIPS Interface
- RS-422
- Ethernet
- MIL-STD-1553B
- Rotor Speed
- Up to 24 Analog Inputs
- Up to 36 Discrete Inputs

THE eSRVIVR ADVANTAGE

- Smaller size with less weight and power
- Flexible architecture for aircraft-specific configuration
- Broad range of aircraft interfaces
- *FIPS-140-2 Validated*, Level 2 encryption
- Data is secure — even in the event of a fire
- Meets MIL-STD-461, -810 and -704 environmental requirements
- Retrieve data via Ethernet download
- Installation in any attitude



Use of U.S. DoD visual information does not imply or constitute DoD endorsement.

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SPECIFICATIONS

PHYSICAL

Dimensions	3.25 in. H x 7.9 in. D x 5.75 in. W
Weight	7.10 lb. max, stainless housing
Color	Fluorescent orange (FS 28915); high-reflective white stripes optional

POWER

Input Power	+16 VDC to +32 VDC, MIL-STD-704F
Consumption	8 W max (steady state)

MAIN CONNECTOR

MIL-C-38999 Series II, 55-pin

STORAGE CAPACITY

4 GB standard, crash-protected solid-state memory

ENVIRONMENTAL (MIL-STD-810G)

Temperature	Operating	-55 °C to +71 °C
	Non-operating	-55 °C to +85 °C
Humidity	100%	
Altitude	Operating	70,000 ft.
Operational Shock	20 g	
Vibration	14 g	
EMI/EMC	MIL-STD-461F	
BIT	Power-up, initiated and continuous	
Reliability	> 50,000 operating hrs. MTBF	
Cooling	Passive convection	
Crash Survivability	Per ED-112	
	Penetration	500 lb./10 ft./¼-in. probe
	Static Crush	5,000 lb.
Fire Protection	50,000 BTU/sq. ft./hr. for 60 min. @ 1,100 °C;	
	10 hrs. @ 260 °C	
Impact Shock	3,400 g, 6.5 ms, half-sine shock wave	
Immersion	Seawater @ 20,000 ft. for 30 days; aircraft and fire extinguishing fluids for 48 hours	

UNDERWATER ACOUSTIC BEACON

90-day beacon, TSO-C121b; six-year battery and bracket supplied with unit
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COMPANY CERTIFICATION

L3 Aviation Products Quality Management System is ISO 9001:2008 and AS9100:2009 Rev. C Certified

AIRCRAFT INTERFACE OPTIONS

Cockpit Audio	Up to 4 inputs, each one is selectable for an area mic (150 Hz to 6,000 Hz) @ 3 mV to 3 V or crew audio (150 Hz to 3,500 Hz) @ 3 mV to 3 V
Rotor Speed	1 input, 7 Hz to 6 kHz, 2 V _{RMS} to 122 V _{RMS}
ARINC 429	Up to 4 inputs, 1 output
ARINC 717	64 to 1,024 wps with data output
ARINC 777	RIPS interface
Ethernet	10/100 Base-T with TCP/IP, UDP/IP and FTP
MIL-STD-1553B Channels	Up to two dual-redundant buses (A- and B-channel on each); transformer coupled; Bus 1 can be either a Remote Terminal (RT) or Bus monitor; Bus 2 is a Bus monitor
RS-422 Channels	One optional GSE/aircraft interface using L3 protocol Up to four monitor channels, configurable for bit rate and parity
Analog Inputs	Up to 24 analog inputs (-10 VDC to +10 VDC standard) single or differential
Discrete Inputs	Up to 36 recorded or control inputs
eSRVIVR	Optional <i>FIPS-140-2 Validated</i> , Level 2 encryption certified by the National Institute of Standards and Technology (NIST) Tactical key erase via discrete input Supports 128, 192 and 256 key sizes

CONTROL UNIT (OPTIONAL)

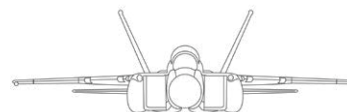
ARINC 757-compatible panel-mount unit for audio testing and erasing, with internal and external cockpit area microphone options
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RECORDER INDEPENDENT POWER SUPPLY (RIPS)

Optional bolt-down RIPS authorized to ARINC 777 and TSO-C155 for additional 10 min. of CVFDR power

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L3 Aviation Products is a leading provider of commercial and military avionics, as well as MRO services. We manufacture a diverse line of safety- and efficiency-enhancing products that sets the standard for next-generation cockpit requirements.

SRVIVR[®]
Voice & Data Recorder



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