

SRVIVR® PLUS 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 in a EUROCAE ED-112-compliant recorder system. Now the SRVIVR Plus CVFDR offers the additional functionality of a Flight Data Acquisition Unit (FDAU) while also meeting the qualification requirements of MIL-STD-810, MIL-STD-461 and MIL-STD-704.



Weighing a nominal 7 pounds, the SRVIVR CVFDR is available as a CVR, FDR or combination recorder. It can be configured for specific aircraft requirements where there are a combination of digital and analog/discrete inputs as well as audio recording. SRVIVR also includes a rotor speed input.

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 possible 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, SRVIVR is 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 SRVIVR ADVANTAGE

- Smaller size with less weight and power
- Flexible architecture for aircraft-specific configuration
- Broad range of aircraft interfaces
- 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



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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 (2) 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 (4) 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

CONTROL UNIT (OPTIONAL)

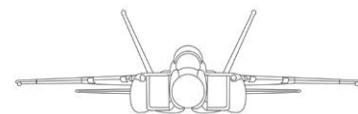
ARINC 757-compatible panel-mount unit for audio testing and erasing, with internal and external cockpit area microphone options
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RECORDER INDEPENDENT POWER SUPPLY (RIPS)

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.