

Cockpit Voice and Data Recorder

The L3 FA5001 solid-state Cockpit Voice and Data Recorder (CVDR) delivers exceptional reliability, is lightweight and has a low cost of ownership. The FA5001 CVDR provides four-channel, 2-hour, high-quality audio recording and 64/128/256/512/1024/2048 words-per-second (wps) flight data for a minimum of 25 hours.



FEATURES

- 2 hours of high-quality recording on all four channels and a minimum of 25 hours of flight data at 64/128/256/512/1024 wps; 2048 wps is optional
- Fully compliant and certified to all civil and regulatory standards
- ARINC 429 Onboard Maintenance System (OMS) with data link and RIPS (Recorder Independent Power Supply) status reporting
- Lightweight — 3.7 kg
- Power consumption — 9 W
- Stand-alone Cockpit Voice Recorder (CVR) and Flight Data Recorder (FDR) options available
- Integrated RIPS option available (adds an additional 0.75 kg)
- Control units, microphones and installation accessories are available
- Industry-standard ground support equipment
- High Intensity Radiated Fields (HIRF) and industry-standard lightning protection



Cockpit Voice and Data Recorder

SPECIFICATIONS

PHYSICAL

Mount	Flange
Height	6.58 in. (167.1 mm)
Width	5.88 in. (149.35 mm)
Depth	9.92 in. (251.97 mm)
Weight	3.7 kg
Reliability	> 50,000 hrs. MTBF, calculated

POWER

Requirements	28 VDC
Consumption	8 W optional integrated 10 min. RIPS (Recorder Independent Power Supply)
Control Unit	18 VDC, 25 mA short-circuit protected power source for preamplifier

RECORDING

Audio	120 min. high-quality 4-channel recording
Datalink	120 min. Williamsburg V1/V3
Data	25 hrs. of 573/717 flight data at 64/128/256/512/1024 wps, rotor speed and time code; 2048 wps is optional

CONNECTORS

Rear	55-pin MS27497 Series II
Mating	MS27473E16F35S

ENVIRONMENTAL

Temperature	Operating	-55 °C to +70 °C
	Non-operating	-55 °C to +85 °C
Altitude	Operating	-1,000 to 55,000 ft.
Humidity		0% to 95% relative
Waterproofness		Drip & condensing water
Vibration		Robust and high-level short duration
Penetration		500 lbs. / 10 ft. / ¼-in. probe
Static Crush		5,000 lbs.
Fire Protection		50,000 BTU/sq. ft./hr. for 60 min. at 1100 °C; 10 hrs. at 260 °C
Impact		3,400 G, 6.5 ms, half-sine shock wave

UNDERWATER ACOUSTIC BEACON

Beacon, six-year battery and bracket supplied with unit



FA5001 RIPS module

PRODUCT CERTIFICATION

FAA TSO-C123b, C124b, C155a, C177 and C121a

REGULATORY SPECS

EUROCAE MOPS ED-112

COMPANY CERTIFICATION

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

L3 Aviation Products

100 Cattlemen Road
Sarasota, Florida 34232 U.S.A.
Tel: 941-371-0811 Fax: 941-377-5591
www.L3aviationproducts.com



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.