

Solid-State Cockpit Voice Recorder

The L3 FA2100 Solid-State Cockpit Voice Recorder (SSCVR) delivers exceptional reliability, is lightweight and has a low cost of ownership. A direct replacement for all Fairchild Model A100A, A100S and A200S Cockpit Voice Recorders (CVRs), the FA2100 provides the maximum recording capacity at the highest quality. Options include ATC data link messaging and Onboard Maintenance System (OMS) reporting.



FEATURES

- Up to 2 hours of high-quality recording on all four channels
- Commercial airline field experience of > 50,000 hours
- ARINC 557 and 757 compliant
- ATC data link, OMS and ARINC 429 I/O available
- Military options — Night Vision Goggles (NVG), 8 Ω
- Lightweight — 10.6 lb. maximum, with stainless steel Crash-Survivable Memory Unit (CSMU) (4.8 kg)
- Optional titanium CSMU
- Low power consumption — 13.8 W max AC and 12.3 W max DC
- Combined CVR and Flight Data Recorder (FDR) option available
- Control units, microphones and installation accessories available
- Direct replacement for Fairchild CVRs
- Common ground support equipment with FA2100 FDR and Cockpit Voice and Data Recorder (CVDR)
- General Aviation (GA) version available



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SPECIFICATIONS

PHYSICAL

Size	½ ATR short
Height	5.5 in. (14.00 cm)
Width	5.0 in. (12.70 cm)
Depth	12.6 in. (32.00 cm)
Weight	10.6 lb. maximum; 8.3 lb. optional
Reliability	> 50,000 hrs. MTBF

POWER

Requirements	115 V, 400 Hz or 28 VDC
Consumption	13.8 W max AC; 12.3 W max DC
Control Unit	18 VDC, 25 mA short-circuit protected power source for control unit/microphone preamplifier

RECORDING

Time	120 min. high-quality 4-channel recording or 30 min. high-quality 4-channel recording
Channels	4 audio input channels
Rotor Speed	7 Hz – 6 kHz
Features	OMS and CPDLC capable

MONITOR OUTPUT

Headphone Jack	600 Ω at the control unit; optional 8 Ω
Bulk Erase	Fail-safe, double electric interlock

CONNECTORS

Rear	AS81659- and ARINC 404-compliant 57-pin single receptacle
Mating	AS81659- and ARINC 404-compliant single-insert plug

ENVIRONMENTAL

Temperature	Operating	-55 °C to +70 °C
	Non-operating	-55 °C to +85 °C
Altitude	Operating	-1,000 to 55,000 ft.
Vibration	Operating	DO-160C Para 8.6.2 Category C (random)
Penetration	500 lbs. / 10 ft. / ¼-in. probe	
Static Crush	ED-56A	5,000 lb.
Fire Protection	50,000 BTU/sq. ft./hr. for 60 min. at 1100 °C; 10 hrs. at 260 °C	
Impact	ED-56A	3,400 G, 6.5 ms, half-sine shock wave

UNDERWATER ACOUSTIC BEACON

90-day beacon, seven-year battery and bracket supplied with unit

PRODUCT CERTIFICATION

FAA TSO-C123a, TSO C-123b, TSO-C177

REGULATORY SPECIFICATIONS

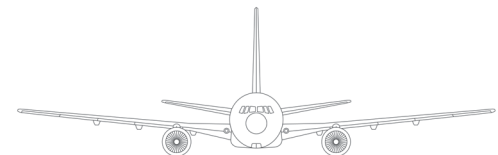
ARINC 404A, 757, EUROCAE MOPS ED-56A, RTCA/DO-160C, RTCA/DO-178B Level D

COMPANY CERTIFICATION

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

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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.

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