

Aviation Recorders

ARINC 429 MICRO QUICK ACCESS RECORDER

The L-3 ARINC 429 Micro Quick Access Recorder (μ QAR) is designed for use in commercial and military aircraft operating with solid-state flight recording systems. The instrument's unique features include a very light structure (6 oz / 170 g) with a fixed or removable Compact Flash (CF) memory card and a standard USB 2.0 interface for optional downloads. The μ QAR records a copy of the data provided to the FDR and 2 channels of ARINC 429 (high or low speed) for easy retrieval in Flight Operations Quality Assurance (FOQA) systems. The data stored in the CF card can then be transferred into a third party FOQA/Flight Data Management system for analysis. An optional Ethernet Interface Box is also available (see back).



KEY FEATURES

- Compatible with ARINC 573/717/747 FDRs
- Optional bi-polar or bi-phase inputs
- (2) ARINC 429 inputs (high or low speed)
- Optional data wrapping and data sensing
- Optional USB output from main connector or standard USB jack
- Optional electrical connector configurations
- MTBF >100,000 hours
- Lightweight <6 oz (170 g)
- Custom configurations
- Compatible with all major FDM analysis tools
- Optional Ethernet interface (box available for downloading via Ethernet)



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PHYSICAL DIMENSIONS

Height:	1.8 in (3.56 cm)
Width:	2.2 in (5.59 cm)
Depth:	2.7 in (4.32 cm)
Weight:	6.0 oz (170 g)

POWER

Consumption:	1.6W
Input Voltage:	115V AC, 400Hz or 28V DC

CONNECTORS

M83723/76R1415N
MS24266R14B15PN
MS24266R22B55PN

STORAGE CAPACITY

512 MB, 1 GB and 2 GB on internal fixed media or removable compact flash memory card

DATA INPUT

Format:	64/128/256/512/1024 wps Harvard bi-phase synchronized per ARINC 573/717/747 or bi-polar
Channels:	2 channels ARINC 429 (high or low speed)
Signal Characteristics:	Compatible with ARINC 573/717/747
ARINC Processing:	True differential analog processing with digitally adaptive bit synchronization

OUTPUT FORMAT

Data can be processed into packed and unpacked files as well as ROSE compatible files

DOWNLOAD

High Speed:	Via USB 2.0 interface
Types:	Onboard aircraft, removeable media and shop readout

OPTIONAL 429 ETHERNET INTERFACE BOX AVAILABLE



STC/PMA

Approved by the FAA and EASA for installation in most aircraft types (contact the factory at 941-371-0811, ext 5618 for further details)

REGULATORY SPECIFICATIONS

RTCA/D0-160D, RTCA/D0-178B Level E

L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9100:2004 Rev. B Certified

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communications
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L-3. Headquartered in New York City, L-3 Communications is a prime contractor in aircraft modernization and maintenance, C³ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, subsystems and systems.

This technical data and software is considered as Technology Software Publicly Available (TSPA) as defined in Export Administration Regulations (EAR) Part 734.7-11.

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