

# L-3 Aviation Recorders

## ARINC 429 MICRO QUICK ACCESS RECORDER

The L-3 ARINC 429 Micro Quick Access Recorder ( $\mu$ 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  $\mu$ 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
- (2) ARINC 429 inputs (high or low speed)
- Optional data wrapping and data sensing
- USB output from main connector
- Optional electrical connector configurations
- Includes free software interface utility
- MTBF >100,000 hours
- Light weight <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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## ARINC 429 QUICK ACCESS RECORDER

### PHYSICAL DIMENSIONS

Height:	1.8 inches (3.56 cm)
Width:	2.2 inches (5.59 cm)
Depth:	1.4 inches (4.32 cm)
Weight:	6.0 ounces (170 g)

### POWER

Consumption:	1.6W
Input Voltage:	115VAC, 400Hz or 28VDC

### CONNECTORS

M83723/76R1415N  
MS24266R14B15PN  
MS24266R22B55PN

### STORAGE CAPACITY

256, 512MB, 1GB and 2GB on internal fixed media or removable compact flash memory card

### DATA INPUT

Format:	64/128/256/512 wps Harvard Bi-Phase Synchronized per ARINC 573/717/747 or Bi-Polar and ARINC
Channels:	2 channels ARINC 429 (high or low speed)
Signal Characteristics:	Compatible with ARINC 573/717/747
ARINC Processing:	True differential analog procession with digitally adaptive bit synchronization

### OUTPUT FORMAT

Data can be processed into 16-bit packed and unpacked, as well as ROSE compatible files

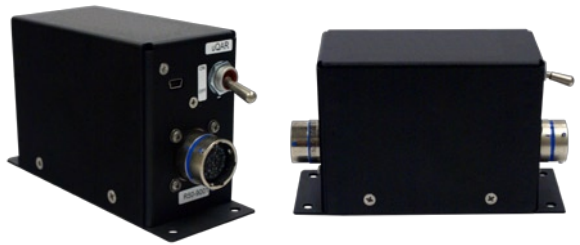
### DOWNLOAD

High Speed:	Via USB 2.0 interface
Types:	Onboard aircraft, removeable media and shop readout
Optional Ethernet Interface Box	For Ethernet downloading

### REGULATORY SPECIFICATIONS

RTCA/D0-160E, RTCA/D0-178B Level C, ARINC 573/717, ARINC 747, ARINC 429

### OPTIONAL 429 ETHERNET INTERFACE BOX AVAILABLE



L-3 Aviation Recorders Quality Management System is ISO 9001:2000 and AS9 100:2004 Rev. B Certified

### Aviation Recorders

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**communications**  
Aviation Recorders

L-3. Headquartered in New York City, L-3 Communications employs over 64,000 people worldwide and is a prime contractor in aircraft modernization and maintenance, C<sup>3</sup>ISR (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. The company reported 2007 sales of \$14 billion.