

LIGHTWEIGHT AND FLEXIBLE CRASH-HARDENED FLIGHT DATA RECORDER MODULES

Appareo offers some of the industry’s best lightweight digital flight data recording solutions for a broad range of rotary and fixed wing aircraft.

Appareo can customize and manufacture a module that is crash-survivable, remote-mountable, and sized to the needs of your specific aircraft. These modules are ideal for aircraft with specific weight or space constraints and where reliable survivability of flight data provides business value in liability limitation and data to assist accident investigations.

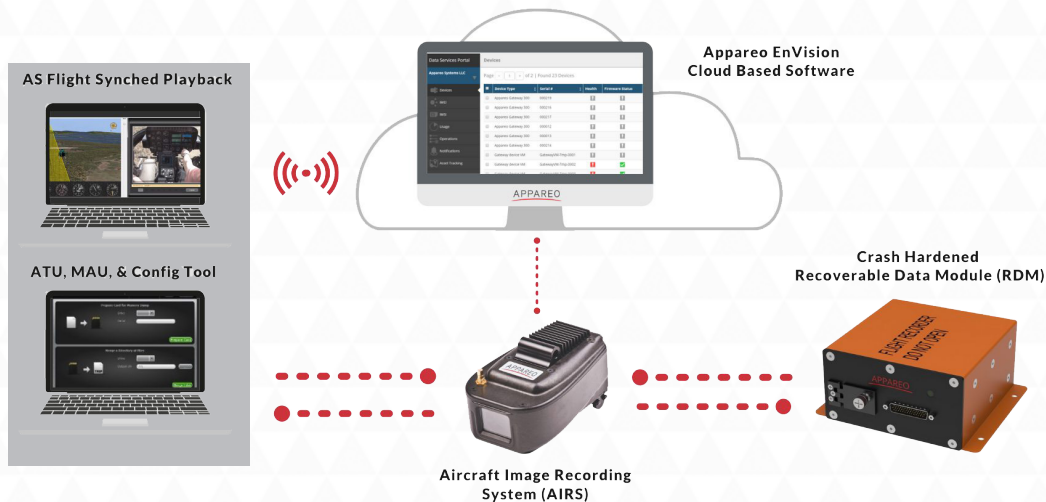
TECHNOLOGY APPLICATION

The recoverable data module (RDM) series are designed to be easily incorporated into a variety of aircraft types, automatically accommodating your aircraft bus speed. Appareo’s 300 series RDM digital flight data recorders (FDR) offer a highly survivable product in a very small package. In aircraft and operations where compliance to a survivability standard is required, Appareo’s 500 series RDM cockpit voice and flight data recorders (CVFDR, FDR, or CVR) are one of the lightest ED-155 compliant flight recorders available.

RDM Series	429 High Speed	429 Low Speed	RS-422	USB	Ethernet	Cockpit Voice	Ambient Audio
300 Series	X	X	X	X			
500 Series	X	X	X	X	X	X	X

POTENTIAL INTEGRATIONS

Either of the RDM series products can be integrated with an Appareo Conexus® product to provide cellular data offload capabilities. Additionally, the 500 series RDM can be integrated with Appareo’s cockpit image recorders to store image and inertial data from the cockpit-mounted camera.



RDM-500

The Recoverable Data Module, model 500 (RDM-500) is under development at Appareo and will be released as one of the most lightweight, ED-155 compliant, digital flight data recorders on the market at 4.5" x 5.5" x 6.0" and 2.4 lbs.

RDM-500 FEATURES:

- Designed to FAA TSO-C197
- Five channels of analog audio for cockpit voice recorder (CVR) or cockpit audio recording system (CARS) functions
 - Four channels for cockpit/crew communication
 - One channel for an area microphone
- Serial and bus data interfaces for flight data recorder (FDR) or aircraft data recording system (ADRS) functions
 - One ARINC 429 interface configurable to high or low speed
 - Two RS-422 interfaces
- High-speed Ethernet interface for recording video or images from aircraft image recording system (AIRS)
- USB interface for communication with RDM software utility
- SD card for easy removal of aircraft data

QUALIFICATIONS: ED-155, DO-160G & DO-178C Level D



RDM-300

The Recoverable Data Module, model 300 (RDM-300) is built with a rugged and compact enclosure to withstand intense DO-160G category tests. Weighing less than 2 pounds, the module perfectly balances rigorous survivability needs while optimizing the size and weight of the product.

RDM-300 FEATURES:

- Configurable ARINC 429 data decoding
- ARINC 429 high or low speed receiver
- RS-422 transmitter and receiver
- Optional additional RS-422 transmitter
- 5 GB eMMC storage
- Weighs less than 2 pounds

QUALIFICATIONS: DO-160G & DO-178B Level E



Contact Appareo today to discuss a Recoverable Data Module that could provide you with the maximum survivability of your flight data, while paying the minimum penalty in size, weight, and cost.

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