



avRDC MAX

REMOTE DATA CONCENTRATOR

Avionica's avRDC MAX combines Avionica's successful QAR offering with feature rich Aircraft Interface Device (AID) functionalities supporting SATCOM functions, onboard data processing functions, among others. Avionica's QARs are certified and operating on thousands of

aircraft and over 400 aircraft types on various hardware platforms. The avRDC MAX leverages the expertise & robust ground systems used across other Avionica QAR products to offer industry-best capture rates & download times for FOQA & MOQA data.

MODULAR SYSTEM DESIGN

The avRDC MAX LRU is an integral part of various Avionica system installations designed to support customer requirements and reduce aircraft touch time. This makes the avRDC MAX a great first step on your Avionica journey!

QAR: The base functionality of the avRDC MAX is to record ARINC 717 and up to 10 channels of ARINC 429 data. When paired with an Avionica's avCM & an avSYNC subscription, the avRDC MAX can upload all flight data to the cloud after every flight. In addition to the traditional use cases for flight data, Avionica is able to leverage recorded ARINC 429 data for additional functions:

- expanded QAR dataframes (e.g., adding additional engine or position information, up to 4096 WPS)
- synthetic engine or ACM(S)(F) snapshot

satLINK MAX SATCOM Support: When combined with an Avionica satLINK MAX (Iridium SATCOM System), the avRDC MAX becomes the interface hub between the satLINK MAX and aircraft systems required for SATCOM functionalities. Conveniently located in the avionics bay, the avRDC MAX minimizes the long wire routes from the SATCOM System, effectively reducing installation hours and harness weight on the aircraft.

aviONS AID: The avRDC MAX can also serve as the AID for the aviONS system (avRDC MAX, avWiFi, and avCM). The aviONS is one of the first ever retrofit cybersecurity FAA STC and features a long list of standard features. The aviONS supports ARINC 615 and ARINC 615A dataloading, as well as synchronization to the avSYNC ground system for seamless integration to airline operations. Additionally, the aviONS supports application hosting for DAL D & E third-party Docker applications. Third-party developers have a chance to deploy their applications to our platform to access flight data in real-time and even offload reports in flight!

EASY INSTALL

Certified on over 300 aircraft models, the avRDC MAX installation requires minimal alterations. Avionica offers when needed, the installation kit required for your aircraft type and supporting certification and engineering.





TECHNICAL SPECIFICATIONS

CHARACTERISTIC	PARAMETER	SPECIFICATION
Size	Length	6.5 in. (16.5 cm)
	Width	4.1 in. (10.4 cm)
	Height	1.5 in. (3.8 cm)
Weight	Typical	16 oz. (454 g)
Power Input	Voltage Range	28 VDC
	Nominal Current	200 mA

NUMBER OF CONCENTRATOR CHANNELS

A429	RS422	RS232	717	Ethernet	Discrete	Audio
10 Input	2 Input	5 Input	1 Bidirectional Bi-Phase or Bi-Polar Channel	3 Bidirectional Channels	10 Input	2 Input
8 Output	0 Output	4 Output			10 Output	2 Output

DO-160 Environmental
Testing Categories:

A2,B,A,B,S (Curve B2),X,X,X,X,X,A,A,Z,CC,TT,M,X,X,X,A,X