

aviONS™

Onboard Network System (ONS)

World's Lightest and Most Robust



aviONS extends the airline network beyond the limitations of its ground infrastructure as it connects the cockpit to the airline's data network. With robust processing power and ample storage capacity, aviONS stands ready to host today's advanced software applications critical to safe and efficient operations and still has the room to support tomorrow's cutting-edge systems.

Flexible and Lightweight

Avionica's engineering team looks beyond the basic standard and offers our customers a flexible product designed to accommodate their varied requirements with weight as little as 14oz/400 grams.

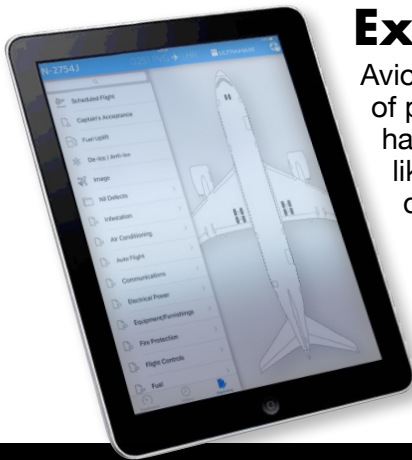
Standardized

We were actively involved in the development of the ARINC 759 Aircraft Interface Device (AID) standard. With a quarter century of experience developing products that link standard and non-standard avionics, our efforts have contributed to the development of a simple and affordable design standard.



Options include:

- Remote Data Concentrator (RDC)
- Airborne Data Loader (ADL)
- Quick Access Recorder (QAR)
- Iridium **SATCOM**
- Cabin/Flightdeck Server (1TB)
- 4G Gateway High Speed Packet Access (HSPA+)
- 802.11b/g/n WiFi



Experience Matters

Avionica's avRDC represents the continuing evolution of Avionica's miniQAR family of products and can serve as a perfect AID in your application. Avionica's miniQARs have provided real-time flight data over Ethernet to non-standard avionics systems, like Electronic Flight Bags (EFB), for over a decade. The rapidly expanding deployment of EFBs spurred our customers to request a growing number of interfaces to the miniQAR. Avionica responded with our avRDC platform, and with the advent of the ARINC 759 standard, now represents our AID offering.

Flight data from the Avionica system can be seen on a variety of displays

Avionica, LLC.
9941 West Jessamine St.
Miami, Florida 33157 USA
Phone: 786-544-1100
Fax: 786-544-1110
Email: sales@avionica.com /
sales-eu@avionica.com

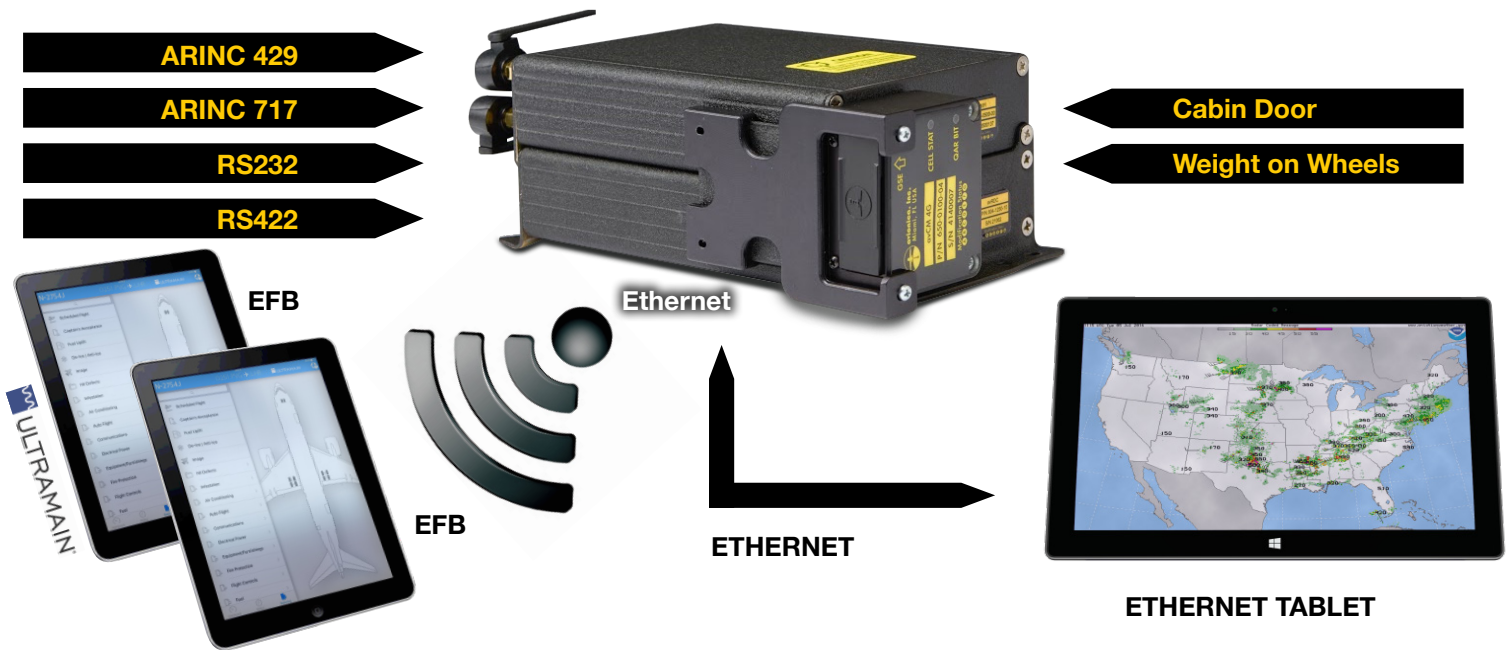


avionica
REAL INNOVATION...REAL SOLUTIONS.

We're Ready to Help

Whatever you need, Avionica is ready to help. Our team will work with you to meet your data and communications management needs.
www.avionica.com

Input /Output Diagram



Technical Specifications

Size/Weight/Conformities

Dimensions: 7.15 (L) x 4.06 (W) x 2.60 (H) inches
 Weight: Max 3.0 lbs
 Conformities: DO178 DAL D

Interfaces

ARINC 429	10 RX 8 RX
ARINC 410 Discretes	10 IN 10 OUT
ARINC 717 RX (BiPhase or RZ)	1 IN
RS 232	5 IN 4 OUT
RS 422	2 IN 2 OUT
DO 210 ACP Audio	2 IN 2 OUT
Full Duplex, Switched Ethernet	UP TO 6
Ethernet Security Domains	3
USB 2.0 GSE Port	1
Removable SD card bays	2

STCs

Approved Model List (AML) STC includes close to 250 aircraft models from Boeing, Airbus, ATR, Embraer, Bombardier, Gulfstream, Cessna, Dassault, SAAB, and more.

Standard

ARINC 717 flight data recording function
 ARINC 429 flight data recording with smart label filtering
 DFDAU/DMU ACMS Report Recording
 ARINC 759 Aircraft Interface Device function

Options

Secure Data and Software Hosting
 ARINC 615-3/4 + 615A Airborne Dataloader Function
 802.11 b/g/n WiFi Wireless
 Worldwide 3G/4G Cellular Wireless
 Wireless Internet Gateway/Router
 Virtual HTML5 MCDU interface

Environmental

Temperature	-40°C to +70°C Operating
Altitude	0 to +15,000 feet
Vibration	DO160G Category S
Shock	DO160G Category B

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