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# RSU 1000

## SECOND GENERATION RUGGEDIZED SERVICE UNIT

Avionica's RSU is a small, powerful, rugged, and flexible diagnostic tool. It offers a modular expansion capability that allows users to begin with a basic system and build on it as needs increase. Power from rechargeable lithium batteries provides staying power to perform for long periods on a single charge.

Connected to a Flight Data Recorder, it enables the user to view data passing through most FDR's in real time, displaying parameters in engineering units, octal, decimal and binary formats simultaneously. If preferred, an octal only reading screen is available. It also downloads data for further analysis from virtually all units fitted to commercial aircraft.

### FDR Compatibility list includes:

- Allied Signal™ SSFDR (980-4120-XXXX)
- Allied Signal™ SSFDR (980-4700-XXXX)
- Honeywell™ AR256 SSFDR (980-4710-XXX, 980-6021-XXX, 980-6023-XXX)
- Sundstrand™ UFDR (980-4100-XXXX)
- Lockheed™ 209 (10077A.500)
- L3 Communications™ FA2100 (2100-4043-XXX, 2100-30XX-X, 2100-20XX-XX)
- L3 Communications™ FA5XXX series
- Fairchild™ F-1000 (S703, S800, S903 series)
- British Aerospace™ SCR-500
- Penney & Giles™ 91005
- Penney & Giles™ D50330
- Plessey™ 1584 Series
- SAGEM™ AP4111XX-01
- Universal Avionics™ FDR 25-1607-XX-XX



**With discrete interface cables attached, the RSU also monitors data directly from the following Data Acquisition Units in real time on board the aircraft:**

- Teledyne™
- Hamilton-Standard™
- Honeywell-Sunstrand™
- Telephonics™
- Plessey™
- SAGEM™
- Allied Signal FDAMS™

The RSU monitors real-time data and transcribes data from the Avionica miniQAR MK II, MK III, avRDC Classic, and avRDC MAX.

Using optional modules, the RSU may also be attached to Bendix and Collins TCAS computers to provide diagnostics.

## TECHNICAL SPECIFICATIONS

- **Size:**  
27.0cm (10.6") Width 18.4cm (7.2")
- **Weight:**  
2.9 lbs. (1.3Kg)
- **Ruggedized Certification:**  
MIL-STD 810G and IP65 certified
- **Operating System:**  
Microsoft Windows 10, 64 bit



- **System Components:**
  - Memory: DDR3L 1600 4 GB
  - Storage: SSD 128GB
  - Processor: Intel quad-core N2930  
Quad Core 1.83 GHz with 2.16 GHz boost
- **Display:**  
10.1" (16:9) LED TFT LCD display
- **Communications Interfaces:**  
RS-232, Ethernet, USB 3.0/2.0
- **Power source:**
  - Main battery: 5300 mAh 7.4 VDC
  - Expansion battery: 10600 mAh 7.4 VDC
- **Temperature:**
  - Operating: -5.8° F to 122°F (21°C to 50°C)
  - Storage: -40 to + 158°F (-40 to +70°C)

