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## RSU II Second Generation Ruggedized Service Unit



The RSU-II is the successor to Avionica's premier Flight Data Recorder Data Download and Diagnostic Tool. Avionica developed the RSU-II after seven years' experience fielding the original RSU and AVSCAN, our acclaimed flight data analysis software.

**Worthy.** Like it's predecessor, the platform for the RSU-II was chosen carefully to best respond to today's, as well as tomorrow's, ground support requirements. It is a powerful and rugged, weather-resistant pen-tablet platform with an 8.5" color LCD display, equipped with USB 2.0 and Ethernet ports. Ergonomically, it's just the right size, weight, and shape to balance performance and convenience. You'll wear out before the battery does (an external battery pack doubles battery life), and the power supply powers either the dock or the unit directly to minimize your accessory count and maximize your options.

**Flexible.** The RSU-II downloads (or monitors) practically every Flight Data Recorder in the western world (see below). Many Flight Data Acquisition units can also be monitored, TCAS systems diagnosed, and ARINC-429 busses monitored. To protect your investment, we've ensured the RSU-II interfaces with most all your original RSU Portable Test Interface (PTI) cables. With SecureLINK wireless on your aircraft, you can even monitor your real-time miniQAR data wirelessly!

But that's not all... Our new menuing software enables users to configure their own custom prompts and workflow. From one-touch operation to comprehensive data entry, the choice is yours. And, with a Windows XP™ Tablet operating system, you can be sure these applications are only the beginning of a whole new family of tools to share this platform, from wireless planeside electronic documents, to data loading and more...

**Convenient.** Like the original, the RSU-II is capable of displaying data in real-time engineering units, octal, decimal, and binary formats. Engineering units provide a more convenient, understandable means of diagnosing DFDR system problems than octal codes or blinking lights. In addition, the RSU-II displays graphical traces of the data, and enables YOU to choose which parameters to view with drag-and-drop simplicity. Using these handy features, an aircraft with diagnosed DFDR System failures may be quickly returned to service after replacing suspect components and performing requisite operational checks.

**Economical.** Despite the revolutionary upgrades in performance over the original, the RSU-II is priced less. Save money on Flight Data Recorder removal, re-certification, logistics, and spares costs during both routine and scheduled readouts by reading the recorder ON the aircraft. Using Avionica's Readout Services, a conservative estimate demonstrates

## Technical Specifications

### Supported Devices

Avionica	miniQAR, miniQAR Mk-II
BASE	SCR500, MCR500
Honeywell (Allied-Signal, Sundstrand)	DFDR, UFDR, SSFDR Series FDAMS (via PCMCIA interface)
L3 Communications	FA-2100 Series
Loral/Fairchild	F-800, F-1000 Series
Lockheed	L-209 Series
Penny & Giles	91005, D50330 Series
Plessey	PV-1584 Series
SFIM	ESPAR
Teledyne	DFDAUs

### Physical

Length:	27.0cm (10.6")	Width:	18.4cm (7.2")
Depth:	4.2cm (1.65")	Weight :	1.7 Kg (3.7 Lbs.)

### Environmental

Operating Temperature:	-4° to 140° F (-20° to 60° C)
Storage Temperature:	-67° F to 167° F (-55° to 75° C)
Water Resistance:	10.3 cm (4") rain per hour, @40 PSI, for 10 Minutes on all 6 axes per MIL STD 810F.506.4

### Power

Smart 3600mAH (40.0W) Li-Ion battery pack

### Portable Power Supply

110VAC to 240 VAC, 40 Hz to 400Hz-Optional

### Operating Systems

Microsoft Windows XP tablet PC Edition

### Communications

56Kbps v.92 fax/modem. 10/100 Mbit Base T-Ethernet LAN

Option-802.11 b WLan

### Microprocessor

933 MHz Ultra Low Voltage Mobile Intel PIII with 512K L2 cache.

256 to 640 MB Low Voltage SDRAM

### Memory

Shock-mounted 2.5" 40 GB Hard Drive Upgradeable to 80 GB

### Display

8.4" SVGA TFT Outdoor Transmissive Liquid Crystal Display with

Digitizer Control Panel touch screen

**Intrinsic Safety & Non-Incendive Class I, Div. 2, Group A, B, C & D, CSA Cert.**