



SCOUT SOLID-STATE RECORDER

The Scout solid-state recorder is an ultra-small, rugged, tactical pre-demodulation data recorder designed to capture up to 40 MHz of spectrum for 45 minutes. A removable flash storage pack supports quick and easy installation and replacement of storage media. The Scout is offered with 70 MHz analog IF input interface option. Command and control is implemented through a USB interface. Recorded data may be accessed through the USB interface or by connecting the DRS removable flash storage pack to a workstation.

Technological advances have enabled breakthrough developments in rugged miniature recording and receiving devices. These devices have now reached size,

weight and power specifications that enable their use in small airborne, man-pack and limited payload vehicle applications. Two possible applications of this miniature SIGINT technology include covert spectrum survey and "black box" spectrum monitoring.

- The Scout captures more SIGINT data per unit volume than other recording devices
- Built to withstand the environmental conditions the equipment may receive in man-portable and battle-ready vehicles
- The Scout stands up to temperatures that would cause lesser systems to fail

SCOUT HIGHLIGHTS

- Ultra-small wideband data recorder
- Removable solid-state storage
- Capture a signal band of up to 40 MHz at 70 MHz IF
- 256 GBytes of storage for up to 45 minutes of 8-bit data capture at 93 MSPS
- Low power -- less than 10 watts
- Flexible FPGA in data path for future enhancements
- Future input interface options:
 - Other IF frequencies (e.g., 60 MHz, 120 MHz, etc.)
 - Selectable bandwidths
 - High-speed Serial



FEATURES

Removable storage	Solid state flash drives
Capacity	256 GBytes
Recording time at 93 MSPS	
8-bit	~45 minutes
10-bit	~38 minutes
12-bit	~30 minutes
Media Type	NAND MLC Flash
Command/Control	USB 2.0

INTERFACE

Data Access	USB 2.0 or installation in removable storage pack
-------------	---

SWAP

Power	6-16 Vdc @ <10 watts
Weight	2 lbs.
Dimensions	1.6 inches x 3.4 inches x 5.7 inches

ENVIRONMENTAL

Temperature	Operating range: 0 °C to 55 °C
Altitude	10,000 feet operating
Humidity	10-90% condensing



Cleared by US DoD/OSR for Public Release under OSR case number 09-S-1354 dated May 8, 2009. Export of DRS SIGNAL RECORDING TECHNOLOGIES, INC. products is subject to U.S. export controls. Licenses may be required. This material provides up-to-date general information on product performance and use. It is not contractual in nature, nor does it provide warranty of any kind. Information is subject to change at any time. Copyright © DRS SIGNAL RECORDING TECHNOLOGIES, INC. 2008. All Rights Reserved.