

# RF Data Recorder

Radix Technologies RF Data Recorder provides leading edge RF data recording technology by combining real time high speed digital data recording and play back as well as data archiving features.

The RF Data Recorder operates in three modes, sustained recording at 300 MiBytes/sec, sustained playback at 300 MiBytes/sec, or Ethernet archive mode where stored data can be offloaded via network. With the addition of an Archive Workstation option, the recorded data can be offloaded to hard drives and made available for offline processing.

The RF Data Recorder is designed for scalability. In its simplest configuration, 2 channels of RF can be recorded with a minimum of 80 minutes of storage time. This baseline configuration can be scaled up independently in 2 channel increments and/or increased storage time to fit the requirements of an application. In its fully configured option, a maximum of 16 channels of RF can be accommodated with storage time dependent on available size, weight, and power.

The RF Data Recorder offers the operator a simple GUI and is controlled through Ethernet.



## Application

Since the RF Data Recorder has the ability to record in real time, 20-3000 MHz with 30 MHz of IBW, the system is ideal for capturing the RF environment to support signal and/or environmental analysis.

In its real time play back mode, the captured data can be used to emulate the RF environment. This powerful feature can supplement the need for costly field testing and also support regression testing of products, thus reducing turn around time for product development.

In addition to the real time play back mode, the usage of the archiving mode, the system along with its captured data, can support offline analysis of the captured signal environment.

# RF Data Recorder

## Features

### High Speed

Records and plays back synchronized data from up to 16 channels of data at sustained rate of 300 MiBytes/sec.

### Multichannel/Scalability

Records from as few as 2 RF channels to as many as 16 RF channels with synchronized recording. Play back from as few as 2 recorded channels with synchronized start.

### Network

10/100 Ethernet for system control.  
10/100/1000 Ethernet for network archiving mode.

### Data

Recorded data contains RF front end information as well as GPS time tagging. Data is sampled at 81.92 MHz with 14 bit resolution.

### Storage

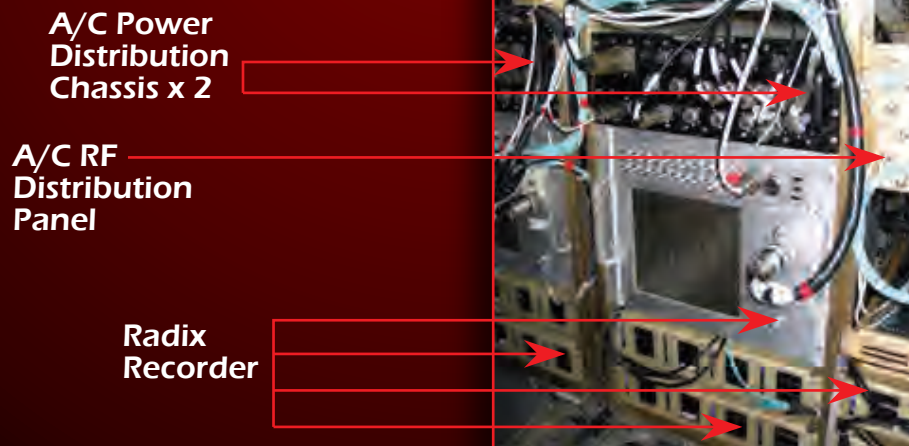
Expandable from 80 minutes of recording time to over 300 minutes of recording time (dependent on available size, weight, and power).

### I/O

Analog RF input range – 20 MHz to 3 GHz  
Internal A/D Subsystem - 14 bit ADC  
GPS RF input  
Play back – LVDS specifically for Radix Technologies Amber Processor (RRS-2301)

### Optional Features

Archive workstation – offline storage of recorded data



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