

# SI-8649A/PR PICORECORDER™



## SI-8649A/PR/S3B6X12M512

DRS Signal Solutions PicoRecorder product enhances the collection, processing, and dissemination of SIGINT data for unmanned aircraft and man-portable applications. The PicoRecorder consists of a Picoceptor receiver integrated with a high-performance, high-capacity solid state drive (SSD) recorder. The PicoRecorder's unmatched size, weight, and power (SWaP) and performance enables the implementation of a new SIGINT CONOPS previously unachievable.

With the PicoRecorder, a 6 MHz spectrum of interest can be recorded for later examination and processing, while signals of interest are examined and demodulated in real time.



Recorded spectral data can be selected for playback through the PicoRecorder's signal processing circuitry.

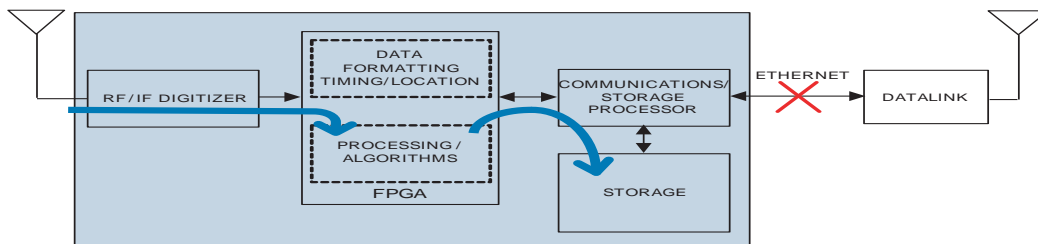
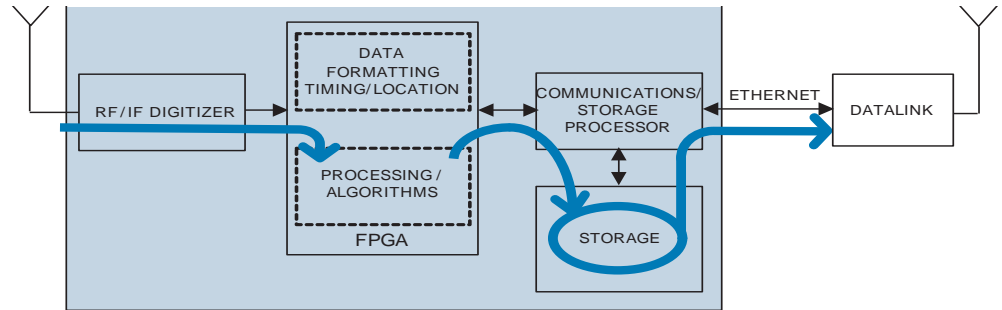
Recordings may be copied from the PicoRecorder and transmitted via an Ethernet connection using the Samba network protocol.

### KEY FEATURES

- Picoceptor Software Definable Receiver
  - 2 MHz to 3 GHz
  - SDR-compatible Embedded Linux Platform
  - Field Upgradeable
  - Open Architecture
  - Xilinx FX12 FPGA
- SIGINT Recorder
- Removable solid state storage
- Full 6 MHz bandwidth recording for four hours
- Gigabit Ethernet interface for network connectivity
- Compatible with SI-9249/FE12 Pico FE (12.4 GHz Frequency Extender)
- Size: 3 x 5 x 2.0 inches
- Weight: 2.0 lbs
- Power: 11 watts
- Storage: 512 GBytes, removeable
- Supports simultaneous read/write of 6 MHz bandwidth/16 bit

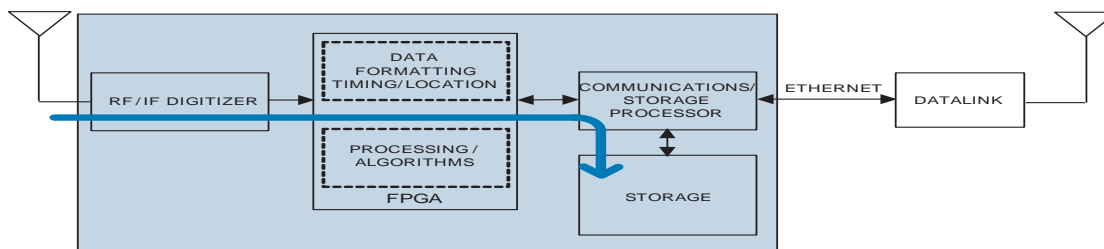
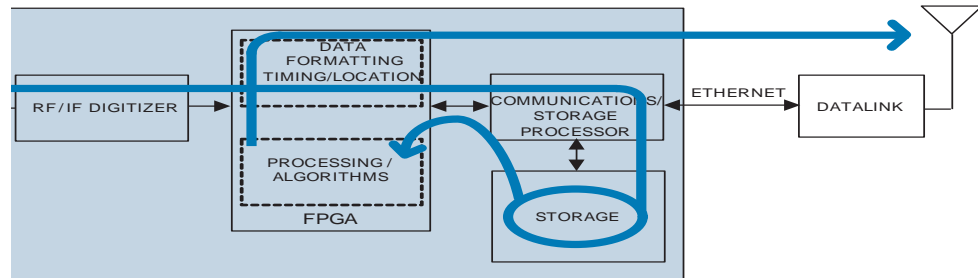
## FOUR EXAMPLES OF PICORECORDER CONOPS

Store processing results into storage for non-real-time output to the datalink.



Save processing results into non-volatile storage when the datalink is not available.

Non-real-time processing from the storage buffer for subsequent output to the datalink. Circular buffer feature allows contemporaneous collection and processing.



Direct storage for post-mission offload. Contemporaneous metadata (time, position, etc.) for post-mission processing (survey, geolocation, etc.)

### ORDERING INFORMATION

SI-8649A/PR/  
S3B6X12M512

PicoRecorder, 512 GBytes

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