

## Solid State Recorder with Removable Memory Cartridges



### Applications

- Airborne PCM/Parallel Data Recording
- Replacement of aging Tape Based Data Recorders

### Features

- Solid State Data Recorder
- Ruggedized for Airborne Applications
- Records PCM and IRIG Time or 8bit Parallel Data
- Uses Removable Memory Cartridges:
  - RMM-5XXX-IS Solid State Memory Cartridges from 2GB to 75GB Capacities
  - RMM-5XXX-ID Hard Drive Cartridges, 80GB Capacity or larger
- Acquires One Input Channel
  - PCM Data Rates up to 20Mbps
  - PCM Internal Frame Correlator
  - Parallel Data 20MBps Burst, 3MBps Sustained
- Uses Digital Recording Format
  - Standard File Structure
  - PCM Regeneration Not Required
- Flexible Control/Status Interfaces
  - RS-232 (Setup/Control/Status)
  - Discrete (Control/Status)
- USB 2.0 Download of Data
- IRIG-B Time Reader
  - Time Tag PCM Frames To 1 Microsecond Resolution

### Description

The SMS-5000 solid state Data Recorder is used in demanding applications such as airborne instrumentation recording. The unit is configured to handle one high speed serial PCM input at data rates up to 20Mbps or 8 bit Parallel data at 20MBps burst with an average data rate of 3MBps. IRIG-B time also recorded when recording PCM data. A frame correlator decommutates the PCM data for direct word aligned data recording. Plug-in memory cartridges are available with capacities ranging from 2GB to 75GB. The unit is programmable via serial RS-232 / 422. Control/Status is also provided. Acquired data can be downloaded via a USB 2.0 interface or by removing the media and placing it in an optional download unit (DTU-4500).

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### SMS-5000 Datasheet

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 Specifications subject to change without notice.



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