

## PCM and 1553 Solid State Recorder with Fixed Media up to 128 Gigabytes



### Applications

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

### Features

- Solid State Data Recorder with Fixed Media
- Ruggedized for Airborne Applications
- Smaller Form Factor than SMS-4000
- Multiple Mounting Options
- Records One PCM Input Channel
  - PCM Data Rates up to 20Mbps
  - PCM Internal Frame Correlator
- Records One Dual Redundant 1553 Channel
  - 1553 data recorded for a single RT address
  - RT address is externally wired with parity
- Uses Digital Recording Format
  - Stanag-4575 File Structure
  - PCM and 1553 recorded in separate files
- Flexible Control/Status Interfaces
  - RS-232 (Setup/Control/Status)
  - Discrete (Control/Status)
- USB 2.0 Download of Data
- IRIG-B Time Reader
  - Time Tag data to 1 Microsecond Resolution
  - Internal Battery backup included (3-5 year lifetime)

### Description

The SMS-4003 solid state Data Recorder is used in demanding applications such as airborne instrumentation recording. The unit is configured to record one high speed serial PCM input at data rates up to 20Mbps and one dual redundant 1553 bus. IRIG-B time is used to time stamp PCM and 1553 data. A frame correlator decommutates the PCM data for direct word aligned data recording. Memory capacity of 8GB to 128GB is available. The unit is programmable via serial RS-232. Control/Status is also provided. Acquired data can be downloaded via a USB 2.0 interface.

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### SMS-4003 Datasheet

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Teletronics Technology Corporation  
15 Terry Drive, Newtown, PA 18940  
phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

[www.ttcdas.com](http://www.ttcdas.com)