

### Miniature Solid State Recorder with Removable CompactFlash Memory



#### Features

- Serial data recording up to a maximum rate of 10Mbps
- 64 Gbyte storage capacity when configured with two 32 Gbyte CompactFlash memory cards installed in the two available media slots
- Data recorded in a standard format
  - Serial data is correlated as it is received and written to memory on frame-aligned boundaries
  - Frames of data are time stamped with a resolution of 1 microsecond from an internal clock or IRIG time with the addition of the optional MIRG-201B module
  - Data analysis is simplified and can be performed directly from the storage media without regenerating the original serial data stream
- Flexible control
  - Software configuration settings allow for the recorder to be controlled with:
    - Discrete commands (contact closures)
    - RS-232 control interface
- Status
  - Basic recorder status can be monitored from several open collector outputs capable of driving lamps
  - Additional status is available through its RS-232 interface
- Power failure provisions safeguard recordings upon unexpected loss of power
- Ruggedized for use in harsh environments

#### Applications

- Flight test instrumentation
- Limited space applications
- Portable recording systems
- Applications requiring playback/analysis on a standard laptop computer

#### Description

The MSSR-2000C miniature solid state recorder is used in demanding applications such as Airborne Instrumentation. The unit is capable of recording a single serial data input up to a maximum rate of 10 Mbps when configured to pack data and record it using a linear file system. A legacy FAT16 file system can be used however the maximum recording rate is reduced to 5 Mbps when configured for FAT16. Serial data is correlated as it is received to find individual data frames. Frames of data are written to the storage media in an orderly way to simplify data processing and analysis. The MSSR-2000C can accept two Type I/II CompactFlash solid state memory cartridges. Currently CompactFlash memories are available with a capacity of 32 Gbytes, with two of these devices installed the recorder's total capacity is 64 Gbytes. The recorder configuration is software programmable through an RS-232 port that can also be used for control and status.

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#### MSSR-2000C Datasheet

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

Teletronics - A Curtiss-Wright Company  
 15 Terry Drive, Newtown, PA 18940  
 phone: 267.352.2020 fax: 267.352.2021 Sales@ttcdas.com

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