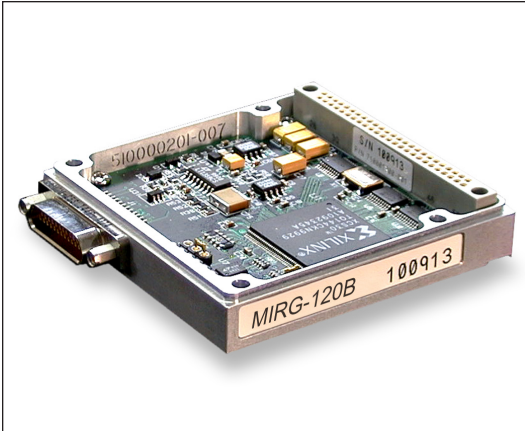


## IRIG Time Reader/Generator Module



### Applications

- Flight Test Instrumentation
- Wideband Testing, Structural Analysis
- Physical Research and Experimentation

### Features

- Time Code Reader/Generator Module
- IRIG-B format (others available as an option)
- Accepts modulated (AC) or unmodulated (DC) inputs
- Generates IRIG-B DC output
- Use for Frame Time Tagging, Bus Word Time Tagging
- Generates Status Words for transmission in PCM
- Compatible with MEDAU/MCDAU/MWDAU-2000 Wide-Band stack operation up to 20 Mbit/sec
- “Flywheel” Mode (runs on internal oscillator)
- Mission “Elapsed Time” Mode (external reset)
- External battery backup provisions
- Time compatible with IRIG-106-96
- Windows 95/98/NT/2000 Software included

### Description

The MIRG-120B-1 module provides IRIG-B time code capability to the MEDAU-2000 Miniature E-Bus Data Acquisition Unit or the MCDAU-2000 Miniature CAIS Bus Data Acquisition Unit or the MWDAU-2000 Miniature Wide-Band Data Acquisition Unit. The module can be placed in either a master or remote unit and will provide time code capability for the modules within that particular stack. The module accepts an external IRIG-B, AC or DC time source for frame time tagging purposes, and in addition, provides per-word or per-message time tagging capability for certain I/O modules in the stack that acquire bus data (e.g. 1553, ARINC-429, RS-232, etc.). The MIRG-120B-1 module also provides an IRIG-B DC time code output for cascading purposes. All encoded time words furnished by the MIRG-120B-1 module comply with IRIG-106-96, Chapter 4 requirements for “high time”, “low time” and “micro time” formats. The module has a built-in microprocessor and ADC to measure and encode the internal MEDAU-2000 system temperature and internal voltage rails within the host MEDAU-2000 Encoder.

Revision 02/18/2009

### MIRG-120B-1 Datasheet

©2009 Teletronics Technology Corporation  
 Specifications subject to change without notice.



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

**www.ttcdas.com**