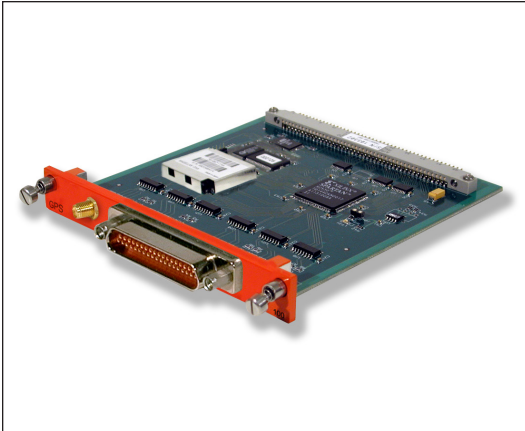


## GPS Position/Time Code Generator Card



### Applications

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

### Features

- GPS Time Code Reader/Generator Module
- IRIG-B Output Time Format
- Accepts input from active or passive GPS antennas
- Accepts IRIG-B AC or DC inputs
- Generates IRIG-B DC and AC Outputs
- Use for Frame Time Tagging, Bus Word Time Tagging
- Generates Status Words for Transmission in PCM
- Latitude, Longitude, Altitude, Velocity and Course Output
- New Position/Velocity/Course data every 250 msec.
- Compatible with EDAU/CDAU-2000 System
- "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 GPS-101 card provides GPS Time, Position and Velocity capability to the EDAU-20XX E-Bus Data Acquisition Unit or the CDAU-20XX CAIS Bus Data Acquisition Unit. The card can be placed in either a master or remote unit and will provide time code capability for the cards within that particular chassis. The card accepts an input from an active or passive GPS antenna. Alternatively, it can accept IRIG-B DC (unmodulated) or IRIG-B AC (modulated) time code inputs. Whatever the time code input source, the card provides frame time tagging, and in addition, provides per-word or per-message time tagging capability for certain I/O cards in the chassis that acquire bus data (e.g. 1553, ARINC-429, RS-232, etc.). The GPS-101 card also provides IRIG-B DC and AC time code outputs for cascading purposes. All encoded time words furnished by the GPS-101 card comply with IRIG-106-96, Chapter 4 requirements for "high time", "low time", and "micro time" formats. The module also has a built-in microprocessor and ADC to measure and encode the internal EDAU-20 system temperature and internal voltage rails within the host EDAU-20XX Encoder.

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### GPS-101 Datasheet

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CAIS  
Compatible



Management  
System  
AS9100C  
ISO 9001:2008

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