

MODEL 6146G/PCI GPS SYNCHRONIZED IRIG B TIME CODE GENERATOR

FEATURES

- Twelve channel GPS receiver with active antenna.
- IRIG B time code generator.
- IRIG B time code decoder.
- 1 PPS UTC Time Mark output.
- Can be synchronized to GPS or IRIG B.
- Operates on PCI bus.
- System clock synchronization driver included.



DESCRIPTION

The Model 6146G/PCI is an IBM PC compatible, twelve channel IRIG/GPS synchronized IRIG B time code generator designed to provide a precise IRIG B serial time code output as well as a 1PPS time pulse when selected for GPS. The unit automatically acquires all in-view satellites upon power up and locks an internal IRIG B time code generator to the GPS time reference. If the GPS lock is lost the 6146G/PCI will automatically switch to an internal clock and continue generating the output IRIG B signal. No discernible change in the IRIG B output will occur due to this transition. When no GPS signal is available, the 6146G/PCI may be synchronized to an external IRIG B signal. It may also be used to generate an IRIG B signal independent of external inputs with the time-of-year set by the host PC.

The 6146G/PCI provides for time tagging events with either the GPS synchronized time or the IRIG time generated by the board. It has seven external trigger inputs and one internal 1Hz trigger and will output time messages to the host PC upon receipt of a trigger. The board can also be used to synchronize the host PC's time to the incoming time.

The unit resides on a single 32 bit, 5 volt PCI port.

