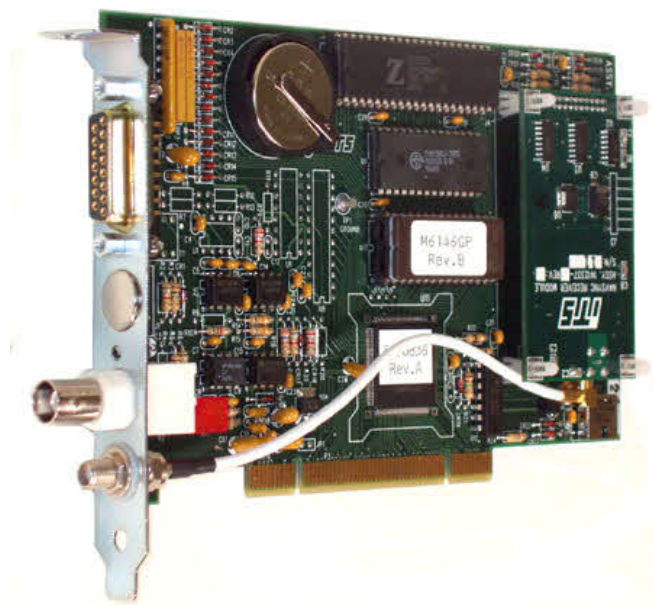


FEATURES

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



DESCRIPTION

The Model 6146GS/PCI is an IBM PCI bus compatible, clock synchronizer that provides synchronization of the host computers clock to either an applied IRIG B time code or GPS via a 12 channel GPS receiver. The GPS time is corrected to UTC. The unit automatically acquires all in-view satellites upon power up and locks an internal clock to the GPS time reference. When no GPS signal is available, the 6146GS/PCI may be synchronized to an external IRIG B signal. As desired the user may set the board to convert Reference time to local time. This unit is an economical solution for those who only want a means of synchronizing their computer clock and don't require an IRIG generator or event time tagging. Included is an active GPS antenna with a 19ft cable. The unit also has the capability of time tagging events. The 6146GS/PCI contains seven triggerable event registers.

A version without the GPS receiver, Model 6146S/PCI is available for synchronization of the PC clock to IRIG B only.

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



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Model 6146GS/PCI GPS/IRIG Referenced PC Clock Synchronizer

SPECIFICATIONS

Frequency Stability

When not locked 2.5 parts in 10^6 .

GPS Performance

Channels: 12 Parallel channels, tracks all satellites in view.
Time-to-first-fix <15 seconds typical (warm start), <90 seconds typical (cold start).
UTC Time Mark Synchronized with Global Reference Standard.
Reacquisition: 2 seconds typical.

GPS Antenna

Magnetic mount active, 5 VDC power provided via antenna cable.

IRIG B Input

Standard IRIG B serial time code IAW OSG IRIG Standard 200-98. Input level: 0.5 to 15 volts p-p.

Interface

33 MHz, 32 bit, 5 volt PCI port.

Temperature

Operating 0°C to +5 °C
Non-operating -20 to +70

Humidity

95% non-condensing

Package

Standard IBM PC card. Occupies single 32-bit PCI slot.

Driver Utility

Windows 9x, ME, 2000, XP, NT compatible.

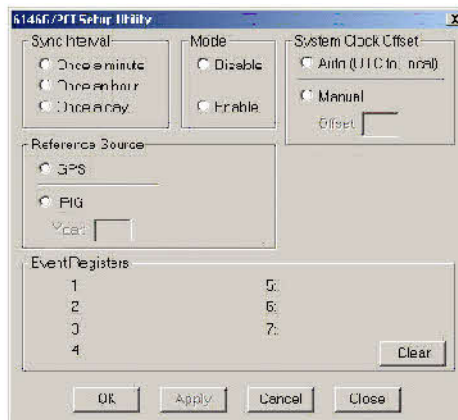


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