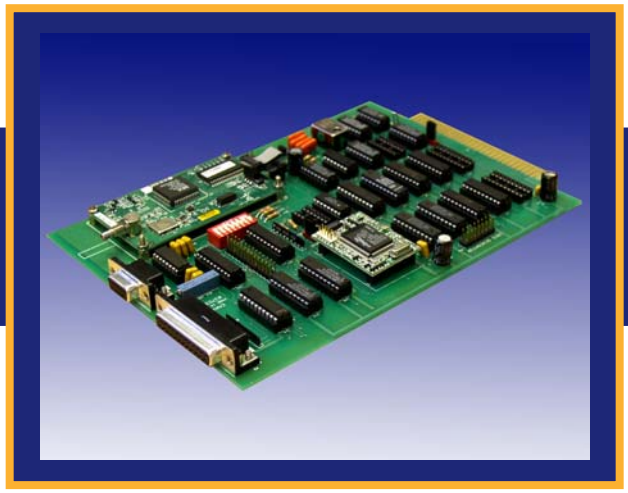
E-MAX GPS Clock

GPS Clock / Receiver



- High Reliability
- High Input Impedance
- Simple Installation
- Monitors 24 V, 48 V, 125 V, and 250 V batteries
- Economical Solution
- Eliminates need for separate GPS Receiver
- Plug-in Installation
- IRIG B
- Optional IRIG Outputs

The new E-MAX Receiver / Clock combines a GPS receiver with a time decoder to provide accurate time synchronization in one economical unit. Synchronized to 1 second GPS pulse, the Receiver / Clock accuracy is within 5 µ seconds.

The E-MAX GPS Clock/Receiver is currently manufactured as an accessory to the Faxtrax line of Director DFRs, DFRs, and Sequence of Event Recorders and is compatible with all E-MAX Digital Recording Systems. Installation is as simple as plugging in the circuit board and connecting the powered antenna.

The GPS upgrade package includes the GPS Clock/Receiver board, a Trimble Bullet 3 Jam-Resistant GPS antenna, and a 75 ft RG-59 cable. The E-MAX R/C also features an output available for time synchronization for another device.

Specifications

General	8-Channel, continuous tracking receiver.
Timing Accuracy	150 nanoseconds to UTC or GPS time
Reacquisition after Signal Loss	< 2 seconds
Driver Inputs	IRIG B Modulated or TTL
Output	Direct to DFR Data Bus
	Optional: IRIG B 0 - 5 Volt through BNC Connection
Data Rate	1PPS
Antenna	Trimble Bullet
Installation	Plug-in circuit card

Cable Specifications

Type	RG-59
Impedance	75 Ω
Capacitance	16.5 pF/foot or 54.1 pF/meter
Velocity of propagation	84%
Shielding	Foil and Copper braid
Connectors	Waterproof F-type
Signal attenuation	<10 dB/100 feet for cable and connectors

Environmental Characteristics:

Operating Temperature	0∞ To 60∞ Centigrade
Storage	-20∞ to 65∞ Centigrade
Relative Humidity	0 to 95% R.H. non-condensing