



- **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  $\mu$  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 $\Omega$
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

