FEATURES

• Generates SMPTE, EBU or IRIG-B time codes
• Synchronizes to GPS satellites
• -11.5 to +12 hour time zone offsets in 30-minute increments
• NMEA/Kinemetrics/Truetime serial protocol output
• Wide DC power supply input range: 12 to 48 VDC
• Switch-selectable time zone and DST
• Switch selectable format and baud rate

SPECIFICATIONS

Time Reference Accuracy
> SMPTE output accuracy of ± 20 microseconds
> IRIG-B0 (DCLS/PWM) output accuracy of ± 90 microseconds
> IRIG-B1 (AM) output accuracy of ± 1.4 milliseconds
> PPS output accuracy of ± 60 nanoseconds

Holdover Accuracy
> With loss of power, device reverts to an internal battery-backed real-time clock chip with accuracy of ± 1min/year or < 165ms per day

Outputs
> SMPTE 30, 25, 24fps (non drop frame only)
> IRIG-B0 (DCLS/PWM): unmodulated, single ended - 5 V
> IRIG-B1 (AM): 1 kHz modulated, level - 5 Vpp
> Date encoded references (IRIG 1344 and SMPTE Leitch date format or 309M)
> PPS
  - 5 V-TTL
  - Pulse width configurable via switch from ~200 ms to ~1 ms
> Serial output via RS-232/RS-485
  - NMEA/Kinemetrics/Truetime protocol

Connectors
> Output: 9-pin removable terminal block
> Power plug: 3-pin removable terminal block
> Antenna: SMA female

Physical
> Size: 5.4d x 4.06w x 1.44h in (13.8d x 10.32w x3.65h cm)
> Weight: 12.8 oz (362.9 g)

Power Supply
> DC input (12-48 VDC)
> Includes external 24 VDC wall-mount power supply with locking DC plug (UL and CE listed)

Operating Parameters
> Temperature: 0 to 60°C
> Humidity: Up to 90% (non-condensing)

Compliance
> FCC
> CE Marked
> ROHS
> ANSI

Antenna Options
> Basic antenna package includes magnetic GPS antenna and 15 ft (5 m) of cable
> Standard antenna package includes outdoor GPS antenna, mounting kit, and 50 ft (15 m) of cable

Rack mountable with RM4