

GPS BASED MASTER CLOCK

The **ES-911E/GPS** is a GPS (Global Positioning System) Master Clock. The unit displays six digits of legally traceable time as received via the internal 12-channel GPS receiver (Date information is also available on most time code outputs). Simultaneously, the **ES-911E/GPS** generates several types of time code (IRIG-B, IRIG-E, **ESE**, RS-485: "Broadcast", RS-232C: "Broadcast" and RS-232C: "Query") and two (2) 1PPS signals.

The unit is specifically designed to meet the NENA (National Emergency Number Association) Standard NENA-04-002 for a PSAP (Public Safety Answering Point) Master Clock and is capable of "Time Synchronizing" all components of a PSAP. This assures that all equipment such as CAD, ANI/ALI Controllers, Voice Recorders, Radio Consoles, and digital/analog clock systems can easily interface with and be synchronized to the **ES-911E/GPS**.

Features:

- IRIG-B, IRIG-E, RS-232C (Broadcast & Query) And **ESE** Time Code Outputs
- Automatic Daylight Savings Time Correction
- IRIG Codes are Switchable Between Modulated And TTL
- Rugged Rack Mount Enclosure
- +/- 10 Nanosecond Accuracy
- 6-Digit, .56" LED Display
- "Time Sync" Indicator
- GPS "Lock" Indicator
- Legally Traceable to UTC (Universal Coordinated Time)
- Meets or Exceeds NENA-04-002 Master Clock Specifications
- Digital, Video & Analog Slave Clocks Available
- Loss of GPS Signal Output
- Indoor/Outdoor Antenna with 16' Cable
- NTP Output Option
- Internal 60 Minute Battery Back-Up
- UL Approved Power Supply
- Switchable Between 12 & 24 Hr
- Time Zone Offset
- 1 PPS Output
- Loss of Power & Loss of Time Sync Relay Outputs
- Signature Control ("ON/OFF")



Included with the **ES-911E/GPS** is an indoor/outdoor antenna that is connected to the unit via the provided 16' cable. If additional cable is required, "low-loss" cable, an "in-line" amplifier (LA-12F or LA-12FN for low-loss cable) or, for extra long cable runs where more than one in-line amplifier is used, an "Antenna Power Supply" (ES-AB1A) may be required. Consult the ESE factory for more information.

Software is supplied with the **ES-911E/GPS** permitting the user to continuously update a computer's DOS or Windows clock to the GPS time available on the ASCII output.



SPECIFICATIONS

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| <p>Accuracy: +/- 10 ns Of UTC When Locked To GPS</p> <p>Drift: 33 mS/Day (if no GPS signal)</p> <p>Displays: Six Digits, Yellow LED, .56" High</p> <p>Power: 15 Watts Maximum</p> <p>Electrical: 117 VAC, 50/60 Hz Via UL/CSA/CE Approved, External Power Transformer</p> <p>Mechanical: 1.75" x 19" Rack Mount, 10" Deep</p> <p>GPS Receiver: Internal 12-Channel</p> <p>Antenna: Indoor/Outdoor With 16' Cable</p> <p>Battery: 60 Minute Back-Up (all outputs and displays)</p> | <p>Outputs: 1 PPS - TTL, 20% Duty Cycle
1 PPS - TTL, 50% Duty Cycle (regenerated)
IRIG-B - 3 VPP (mark amplitude) (AM or TTL)
IRIG-E - 3 VPP (mark amplitude) (AM or TTL)
ESE Time Code - Drives 100 Slaves @ 4000'
RS-232C - ASCII Date & Time @ 1200-9600 Baud, 8 Data, No Parity, 1 Stop; Broadcast & Query
RS-485 - (same as RS-232C; no Query)</p> <p>Options: Ant, HR, J, K, NTP</p> |
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