NETWORK BASED
TIME CODE GENERATORS

The **ES-911/Serial** and **ES-911/USB** are *ESE* Master Clocks that obtain date and time information from a PC's serial port or its USB "Universal Serial Bus" port. The units are specifically designed to provide all of the time codes as described in the NENA (National Emergency Number Association) Standard NENA-04-002.
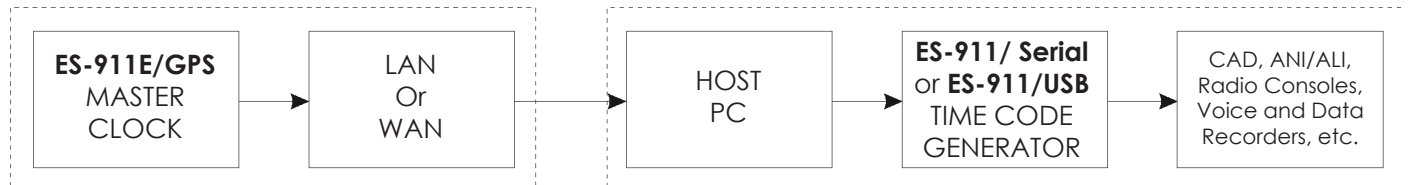
Both units generate several types of time code (IRIG-B, IRIG-E, *ESE*, RS-485, RS-232C: "Broadcast" and RS-232C: "Query") and a 1PPS signals. These units allow synchronization and easily interfaces to equipment such as CAD, ANI/ALI Controllers, Voice Recorders and Radio Consoles. Both products can also synchronize other computers and digital/analog clock systems.

Features:

- IRIG-B, IRIG-E, RS-485, RS-232C (Broadcast & Query) And **ESE Time Code™** Outputs
- 1 PPS Output
- IRIG Codes Are Switchable Between Modulated And TTL
- Automatic Daylight Savings Time Correction
- Optional Internal 60 Minute Battery Back-up
- Rugged Rack Mount Enclosure
- Time Zone Offset
- "Time Sync" Indicator
- "Time Lock" Indicator
- UL Approved Power Supply
- Optional 6-Digit, .56" LED Display
- Provides All NENA-04-002 Master Clock Time Code Specifications
- Digital, Video & Analog Clock Display Available
- Loss of Power & Loss of Time Sync Relay Outputs

Some Options Shown

The **ES-911/Serial** & **ES-911/USB** provide an economical method of supplying the same date and time data from a LAN or WAN to other equipment in need of "Time Sync". The host PC must receive updated time data from the network. This updated time data is then output via the host PC's serial or USB port which synchronizes the timecode generator. Each unit generates the above mentioned time codes as required by the other equipment at the PSAP (Public Safety Answering Point) or other location in need of "Time Sync".

| **ES-911E/GPS** MASTER CLOCK | → | LAN Or WAN | → | HOST PC | → | **ES-911/ Serial** or **ES-911/USB** TIME CODE GENERATOR | → | CAD, ANI/ALI, Radio Consoles, Voice and Data Recorders, etc. |

This scenario allows the *ESE* **Master Clock** (that is providing date and/or time to the network) to reach beyond the network and "Time Sync" all equipment within reach of the "Host PC" and the **ES-911/Serial** or **ES-911/USB**.
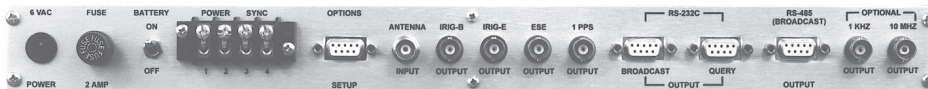
The included **ES-911** Software allows the host computer to output date and time data via its USB port to the **ES-911/Serial or ES-911/USB**. Also supplied, is software that determines the specific USB port number to be used.(**ES-911/USB** only).

SPECIFICATIONS

Power:	5 - 15 Watts Maximum
Electrical:	117 VAC, 50/60 Hz via UL/CSA/CE Approved, External Power Transformer
Mechanical:	1.75" x 19" Rack Mount, 10" Deep
Accuracy:	Provided by host PC & LAN or WAN
Drift:	200mS/day (if no update via serial or USB port)
Options:	6-Digit Display, BBU, Black, HR, J
Input:	Serial or USB
Requirements:	**ES-911/Serial:** Windows 95 or better
	ES-911/USB: IBM type PC with Pentium®, 16 MB RAM, Windows® 98-OSR 2.1 or better, USB port

Outputs: 1 PPS - TTL, 50% Duty Cycle
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-485 - ASCII Date & Time @ 1200-9600 Baud, 8 Data, No Parity, 1 Stop; Broadcast & Query
RS-232C - ASCII Date & Time @ 1200-9600 Baud, 8 Data, No Parity, 1 Stop; Broadcast & Query

142 SIERRA ST., EL SEGUNDO, CA 90245 (310)322-2136 FAX (310)322-8127 www.ESE-WEB.com