

NETCLOCK IRIG OUTPUT CODES

Spectracom's NetClock NTP time server provides IRIG B and E outputs. The specifications are as follows:

- Signal:** Selectable IRIG B or IRIG E, amplitude modulated sine wave (AM) or pulse-width-coded (TTL)
- AM Carrier:** IRIG B-1000 Hz
IRIG E-100 Hz or 1000 Hz
- AM Signal Level:** Adjustable from 0 to 10 Vp-p mark amplitude into loads of 600 ohms or greater; factory set to 2.0 V p-p
- Accuracy:** IRIG-B, IRIG-E 1000 Hz AM: ±20 microseconds of UTC
IRIG-E 100 Hz AM: 200 microseconds of UTC
IRIG-B, IRIG-E TTL: ±2 microseconds of UTC
- Connector:** BNC female
- Configuration:** IRIG Formats B or E in AM or TTL levels. Time data is configurable with Time Zone Offsets and DST rules. Signature Control may also be placed on the output signal. This feature removes the modulation code from the IRIG output whenever the selected alarm condition is present. The output is restored when the fault is corrected.

Data Output	Port Available	Local Time Zone Offset	Automatic DST Adjustment?
IRIG B	IRIG port on rear panel	+/-12:00	YES
IRIG E	IRIG port on rear panel	+/-12:00	YES

All IRIG outputs have a letter and number combination that defines the type of IRIG signal. These codes help define the compatibility of IRIG outputs with external devices. The codes denote the type of signal, type of modulation of the signal, and the speed of the modulation. The letter defines the type of IRIG output (B or E, supplied by the NetClock), the first number indicates either TTL or AM modulation, the second number indicates either TTL or the carrier frequency (100 Hz, 1kHz, etc.), and the third number indicates which of the three main portions of the IRIG signal are populated or used (BCD, CF, SBS).

Customers wishing to synchronize IRIG devices using a Spectracom NetClock time server may refer to the following list of possible output configurations for the NetClock IRIG output:

IRIG Code Formats Provided by Spectracom NetClock Products	Code Description
B000	IRIG B, TTL, BCD, CF, and SBS
B120	IRIG B, AM, 1 kHz, BCD, CF, and SBS
E001	IRIG E TTL, BCD, CF
E111	IRIG E AM, 100 Hz, BCD, CF
E121	IRIG E AM, 1 kHz, BCD, CF

Contact Spectracom Technical Support at US +1.585.321.5800 for more information and assistance.