PRESENTATION
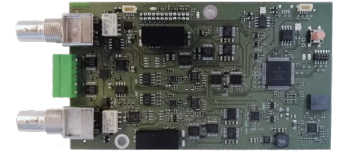
- The IRIG OUTPUT option card has 2 independent outputs that generate IRIG signals for synchronising equipment. It is fully configurable via the web server.

MAIN CHARACTERISTICS

Formats supported

Format	Modulation type	Carrier Frequency	Coded Expressions
A	0,1	0,3	0,1,2,3,4,5,6,7
B	0,1	0,2	0,1,2,3,4,5,6,7
E	0,1	0,1,2	0,1,2,3,4,5,6,7
G	0,1	0,4	1,2,5,6
Example : IRIG B126 format			
B	1	2	6

Modulation type

0	DC Level Shift (DCLS), pulse width code.
1	Sine wave carrier, amplitude modulated (AM).

+ support: AFNOR NF S 87-500 ANNEX A

Carrier Frequency

0	No carrier (DCLS)
1	100 Hz
2	1 kHz
3	10 kHz
4	100 kHz

Accuracy and stability

- **AM :**

Frequency	Accuracy[1]	Stability[2]
100 kHz	+/- 200 ns	+/- 100 ns
10 kHz	+/- 200 ns	+/- 200 ns
1 kHz	+/- 400 ns	+/- 300 ns
100 Hz	+/- 4 µs	+/- 400 ns

- DCLS & DCLS RS422 :

Accuracy[1] : **+/- 50 ns**   Stability[2] : **+/- 100 ns**

Typical values measured over 1H on a Netsilon 9, synchronised in GNSS for at least 1 hour.

[1] : difference between the PPS oscillator OCXO and the IRIG output,
[2] : jitter of the IRIG output relative to the GNSS synchronisation.

Levels

- AM : 0.5 to 6 Vpp 50 ohms,
- DCLS-TTL : 5 Vpp 50 ohms.

Compensation

Management of cable length compensation (except with IRIG E).

Connections

- IRIG AM and DCLS : BNC connectors (+ core, - shield),
- DCLS - RS422 : pluggable screw terminal (3.81 mm).

Pluggable screw terminal

T-/B T+/A GND T-/B T+/A

OUTPUT A | OUTPUT B

BNC connectors

NOTES

- The IRIG OUTPUT option card is compatible with Netsilon 9 and Netsilon 11.
- 2 independent outputs allowing the generation of 2 different IRIG formats and the management of 2 time zones.
- Each output is programmable as either :
  AM : output on BNC,   DCLS : output on BNC,   DCLS-RS422 : output on pluggable screw terminal.

PRODUCT REFERENCE

- **907 930**.. IRIG OUTPUT option card.

>> www.bodet-time.com <<