



TIB202 IRIGB Generator

Features

The TIB202 unit is part of the TimingBox® desktop Line of equipment. It's an easy to use compact box ideal for control, trouble shooting and maintenance of equipments and systems using IRIGB time code for time-stamping or synchronization.

This unit is housed in a compact box which connects to a PC through a standard USB interface.

The TIB202 is able to provide following signals:

- Analog IRIGB, modulated signal with settable level from 0 to 7 V peak-peaks.
- Digital IRIGB - DCLS, not modulated signal
- "1-PPS" pulse in phase with the generated IRIG-B signals.

The unit also has a "1-PPS" input to phase the IRIG-B signals to an external reference.

Connection to the TIB202 is made by mean of 4 BNC connectors on the front panel and one USB connector on the rear panel. Two LEDs in front indicate the state of the outputs and the selection of the unit by the management software..



To use the TIB, simply connect it to an USB port of a PC or an USB hub. The TIB is powered through the USB connection and don't require an external power supply.

TIB's software management

Dedicated software running on the PC on which the TIB202 is connected, provides a rich set of management and configuration functions.

This software is compatible with the following environments:

- Microsoft Windows (XP SP3, Win7)
- Linux

The software automatically detects the connected TIB units and displays their characteristics.



TimingBox

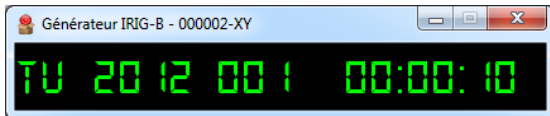
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The TIB202 unit can be set to generate the following signals:

- IRIGB UTC frames
- IRIGB TD countdown frames
- IRIGB H0 launch time frames

For UTC, all codes B120 to B127 and B000 to B007 are available.

The time windows are displayed as below:



The content of the window depends on the selected mode. In the above example, the unit has been set to provide UTC frames.

The firmware of the TIB202 unit can be updated by the user itself without need of any external mean.

Connectivity

Rear face: USB type B base connector (an A/B cable type is provided).

Front face: Isolated female BNC base

IRIGB analog output: compliant with standard 200-04: B120 to B127, 1 KHz modulated signal 1:3 / 1:1, 0V – 7V peak-peak 600Ω.

IRIGB DCLS output: not modulated IRIGB time code B000 à B007, TTL level.

1PPS output: 10 ms width, TTL level

1PPS input: rising front active, TTL level.

Internal oscillator

- Free running stability: 5 ppm.
- 1×10^{-9} disciplined with an external reference.

Dimensions & weight

L= 106 mm, H = 34 mm, D = 145 mm.
Weight: 0.5 Kg

For commercial ordering: TIB202

The TimingBox™ range comprises a set of products for generating and decoding time codes and synchronization signals.

For further information:
www.timelinkmicro.com/TIB