

Introducing Abracon's Sync-n-Go : 10MHz Portable Precision-Frequency-Reference

Most professional test and measurement equipment offering high accuracy and precision; has an input for an external 10MHz frequency reference. Test Labs and Design facilities often have their 10MHz reference signals distributed from a common standard, or they have bulky bench devices, which makes them unsuitable for portable use.



Key Features:

- Standalone precision 10MHz Synchronized reference
- Fully automated synchronization to an external reference at the press of a button.
- Excellent Portability - 89x36mm for bench or field
- Very low Phase Noise
(-122dBc/Hz at 100Hz offset), < -160dBc/Hz floor
- Frequency drift < +/-25ppb over (25C +/-10C)
- Typical stability < +/-100ppb over (0C to +60C)
- LED's for lock, battery status and output
- Typical 8dBm Sine wave O/P (min 6dBm).
- 10 hour minimum standalone operation
- Rechargeable via mini USB connector from PC or charger
- Robust construction (Machined Aluminium Enclosure)

Typical Phase Noise @ Offset from Carrier	
1Hz offset	-60dBc/Hz
10Hz offset	-93dBc/Hz
100Hz offset	-122dBc/Hz
1KHz offset	-143dBc/Hz
10KHz offset	-153dBc/Hz
1MHz offset	-157dBc/Hz
5MHz offset	-162dBc/Hz

Applications:

- Mobile testing – Reference for mobile equipment
- Convenient hand-held reference when 10MHz standards locally unavailable
- Field reference for testing at remote sites
- Very low phase noise reference for in-circuit bench testing

How it Works....

Ensure that the Sync-n-Go is charged via the mini USB connectorized wall charger

Synchronize the Sync'n Go's internal Stratum-III oscillator to a more accurate reference (e.g. GPSDO, Rubidium standard, etc.) at the push of a button.

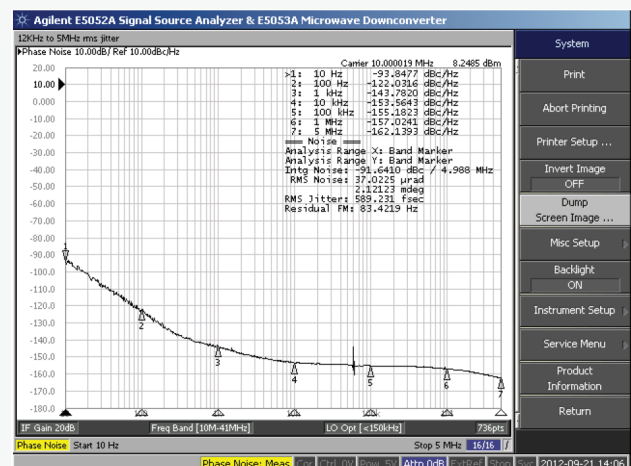
To Sync the device up to an external reference, the reference signal must be connected to the 'Ref In' connector. Next, press the 'Synchronize' button.

If the reference signal is stable, the Sync'n Go will synchronize, and the 'Lock' LED will turn yellow then green & then turn itself off indicating that the Sync-n-Go is now locked to the external reference.

In case the LED starts to flash red, the Sync'n Go could not synchronize to the external signal, due to excessive jitter or incorrect input frequency (other than 10MHz).

Connect the 'Out' SMA connector to your test equipment or measurement system and press the 'power' button and the 'On' LED will turn green indicating 10MHz reference is available.

Watch more about Sync-n-Go on YouTube.
www.youtube.com/user/AbraconCorp



Links and Resources:

<http://www.abracon.com/PrecisionTiming/SYNC-10MHz.pdf>

In-Stock @: Digikey, Mouser, Avnet & Abracon.



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