MultiBand GNSS Handheld-Recorder

For embedded moving environments and scientific use cases

Multiband GNSS recorder is a data logger used to record GNSS signal in the form of complex digitalized samples (I/Q samples) in two bands (L1/L5 or L2). These samples can then be used by a GNSS software receiver to perform post-processing analysis and statistics of possible events observed during the recording duration.

Analysis tools are left to the customer discretion but can include spectrum analysis, interference detection or any metric which can be computed from complex digitalized samples. GNSS recorder is designed to ensure that the signal is captured/transmitted using high quality RF front-end while covering a wide range of input signal power.

As such, user can configure the data logger to record any duration of signal within the range of local storage disk (SD card capacity), choose the bit quantization with 1 or 2 bits at 25MHz sampling frequency.

Extensive options

- Compliant with UAV operating environment

- Size: 83 x 59 x 25 mm

- Lower than 200 grams

- Passive or active antenna

- Carrier frequencies: 1,57542 GHz and 1.2276 GHz

- 2 quantization bits

- Fech: from 25Mhz

- I/Q recording on SDHC board

- Power Supply 5V via µUSB or µSub 240 mA typ. 1.2 Watt

- Up to 16 hours of recording
  (depending on configuration and SD cards capacity)

- Snapshot can be trigged either through serial line or I/O 3,3V or directly at power up

- Snapshot can be sent through a serial line, on request

« GNSS Handheld recorder » is currently embedded on UAVs for reflectrometry applications by some German and French Universities

More info on **syntony-gnss.com**

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