

LOKI

GNSS Interference Simulator



LOKI GNSS interference simulator is a powerful testing device which supports currently **jamming**, **meaconing** and **spoofing** applications on GPS L1 and Galileo E1 services.

FEATURES:

- Flexible software-based jammer
- Different jammer types
- Time synchronized record and replay system
- Real-time transmission of spoofing signals.
- Time synchronized spoofing attacks (PPS and 10MHz time synchronization).
- Navigation-Bit prediction for sophisticated spoofing attacks.
- Jamming+Spoofing attack (forcing attacked receiver into re-acquisition).
- GPS L1 C/A and Galileo E1 OS signals can be spoofed.
- Dynamical intended (forced) trajectory via map applications (offline, online, and Google-Maps).

WE MASTER INTERFERENCE

SPECIFICATIONS

JAMMING

Signal	GPS L1 CA, GAL E1 OS
Bandwidth	2.5 or 5 or 10 MHz I/Q
Signal Type	Noise, Sinus, Chirp
Transmission power	up to - 10 dBm

MEACONING

Signal	GPS L1 CA, GAL E1 OS
Sample-Rate	2.5 or 5 or 10 MHz I/Q
Transmission power	up to - 10 dBm
Time Synchronization	Yes

SPOOFING

Signal	GPS L1 CA, GAL E1 OS
Position	Via File or Maps (online, offline, and Google-Maps)
Sample-Rate	2.5 or 5 or 10 MHz I/Q
Transmission power	up to - 10 dBm
Time Synchronization	Yes
Satellite Position	Via broadcasted ephemeris

TRANSCEIVER HARDWARE

Connections	1 TX, SMA Connection 1 RX, SMA Connection 1 Type-B USB 3.0 connector DC Input 12V (incl. power cable)
Dimensions (L;B;H)	330; 330; 60 (plus SMA - Front ca. +5) mm

CONTROLLER UNIT

Power supply	1x Power cord C6 EU
Dimensions (L;B;H)	395; 260; 35/280 mm (closed/open)
Weight	≈ 2.5/3.2 kgs (net/with USB and power cables)
Optional HW	1. 1x Omnidirectional reference antenna 2. 1x Directional transmitting antenna 3. 1x RF cable (transmitting antenna to LOKI) 4. 1x GNSS variable-gain amplifier 5. 2x tripods for the two antennas

DUAL USE	AUSTRIAN GOVERNMENT permission mandatory
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