![NOFFZ TECHNOLOGIES logo]

sUTP 5017

GNSS SIMULATOR

FOR INDIVIDUAL REAL-TIME SIMULATIONS

PRODUCT

Applications: Production Test Systems, Product Validation, Signal Simulation

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NOFFZ
T E C H N O L O G I E S

SUTP 5017 GNSS
AT A GLANCE

Our sUTP 5017 turnkey solution consists of a modular Skydel GNSS software simulation combined with high end hardware components for running real-time individual signal simulations.

The integrated Scenario Editor allows free definition of trajectories in up to 6 Degrees of Freedom. It supports differential GNSS and multi-vehicle simulation, GNSS satellite orbit modification, unlimited pseudorange additive ramps and custom fixed positions.

It is equipped with 2 Software Defined Radios (SDR) with 4 RF channels in total.

> Including PC, high end graphic card, Software defined radio ...
> 1000 Hz simulation update rate
> Integrated maps for flexible and intuitive scenario creation
> Import NMEA, KML (Google), or CSV Files
> High dynamics
> Open source remote API for easy automation in multiple programming languages
> Satellite orbit modification and custom fixed position
> Navigation message modification and corruption
> Interference generation and injection in GNSS signals
> File formats: CSV, KML, NMEA, etc.
> Powerful automation & intuitive API (Python, C# and C++ open source client)
> Runs on Linux and Windows

TECHNICAL DATA

	sUTP 5017 GNSS
Mechanics	
Housing	450 x 318 x 495 mm / 7RU (W x H x D)
Weight	20 kg
Power supply	
Input voltage	100 – 240 VAC
Input current	10.0 A (Max.)
Input fuse	RC/CB C16 30 mA
Input / Output Interfaces	
Inputs	IEC Socket 3 x USB 3.0 2x1 Gbit Eth. 1x10 Gbit Eth. (optional) 1x RF In (SMA jack, GNSS evaluation unit) 2 x USB – JTAG (USRP A / USRP B) 2 x USRP AUX I/O - 15 Pin 1x GPS Antenna / SMA-f 1x ext. 10 MHz signal / SMA-f 1x PPS Signal / SMA-f
Outputs	1x HDMI 2 x RF DUT (SMA jack, identical signal) 2 x GPS Antenna 2 x USRP Reference signal / SMA-f 2 x USRP Trigger signal / SMA-f 2 x 10 MHz Signal / SMA-f 2 x PPS Signal / SMA-f
Provided signals	
Basic satellite signals	GPS L1 C/A, L1 C, L2 C, L5, P-Code Glonass G1, G1/G2, CDMA Galileo E1, E1/E5/Altboc, E1 OS-NMA, E6 CS Beidou B1, B1/B2, Phase III SBAS, L1, L5
Signal manipulation	Advanced Jamming, Interference/Jamming with CW, Chirp, Pulse, BPSK, BOC, AGWN, Spoofing, Multipath
Further signal options	Multi Instance option Anechoic Chamber multi antenna installation
Simulation possibilities	Single antenna, single vehicle Multi antenna, multi vehicle HIL, RTK