

SIGN4L

SKYSHIELD N

RELIABLE PROTECTION. ACROSS THE SPECTRUM.



STATE-OF-THE-ART, PLATFORM-DESIGN COUNTER-UAS SOLUTION

The SIGN4L SKYSHIELD TM is a state-of-the-art counter-UAS solution in a platform design that combine jamming and spoofing for reliable point protection. This solution jams the full GNSS spectrum and spoofs the full commercial GNSS spectrum to protect a specified area of interest.

The typical jamming range for unprotected GNSS platforms is up to 10 km, while the solution also jams drone command and control channels with a typical jamming performance of 2:1 from a drone's remote control.

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SPECIFICATIONS

KEY FEATURES

- Jams the full GNSS spectrum
- Jams drone's command & control channels
- Spoofs the full commercial GNSS spectrum to protect a specified area of interest

Combination of jamming and spoofing capability for maximum coverage range

Typical jamming range for unprotected GNSS platform up to 10 km (medium range coverage)

Typical jamming performance for command-and-control channels is 2:1 from drone's remote control

MAIN COMPONENTS

Jammer and spoofer

SPECIFICATIONS

Equipment (standard antenna)	L mm	W mm	H mm	W kg
Platform	1200	1000	1900	800

HARDWARE SUBSYSTEM

RF jamming frequency	400 MHz – 6 GHz
RF spoofing frequency	GPS, L1C/A, L2C; GLONASS, L1OF, L2OF
Total output power	Up to 350 W
RF jamming and spoofing PA output power	Jamming: 100W from 400-1000 MHz Jamming: 100W from 1100-1300 MHz Jamming: 100W from 2.4 GHz Jamming: 50 W from 5.8 GHz Spoofing: 100W from 1100-1300 MHz Spoofing: 100W from 1550-1610MHz
Jamming signal source	Field programmable gate array (FPGA)
Jammer type	Active jammer
Jammer spurious emissions	< 10dBC on other subsystems without cavity plexer
Jammer total power control step	2 dB with on board attenuators
Jammer transmission power control dynamic range	>20dB
Power consumption (peak)	< 5KW
Connectivity to command and control	Ethernet interface
Antenna	High gain directional antennas/ Option for Omni-directional
RF jamming range	Up to 10 km
RF spoofing range	Up to 10 km
Safety	Alarms for VSWR and temperature
Operating temperatur	-40°C ~ +70°C
Environmental	Designed to meet MIL-STD 810G

*The environmental conditions stated above apply only to SKYSHIELD N systems' main components.

SOFTWARE SUBSYSTEM

Feature	Specification
Remote control unit	C-UAS C2 application
Exciter controller	Ability to activate/deactivate specific frequency bands
Jammer power mute per bands	GUI allows the user to mute specific bands before activation
Jammer power mute for all bands together	GUI allows the user to mute all bands instantaneously
Safety measures	Alarm for VSWR and temperature
Health monitor	System status (Initialising, standby, transmitting)
Selectable jamming threats	GNSS 1164 – 1610MHz and user defined frequencies
Ephemeris data	Live update obtained from current location
Update desired spoof location	User-defined spoof location