GNSS Anti spoofer

REPLEX

Recently, various attacks have been attempted against GPS, which is causing navigation errors on ships and aircraft. In particular, GPS jamming and deception technology is becoming common as a defense against drone attacks in the Ukraine war. Because GPS determines location by receiving very weak signals, it is very vulnerable to interference and deception.
Accordingly, technology to detect and respond to GNSS disturbance and deception must be secured.

Replex Anti-drone System

REPLEX
www.replex.co.kr

Anti Jamming & Spoofing system

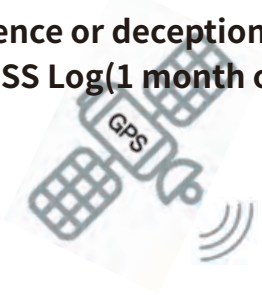
In modern society, global navigation systems (GNSS) play an essential role in daily life and various industries. However, GNSS systems can be vulnerable to jamming and deception attacks.
Reflex's Anti Jamming & Spoofing system is a solution that ensures the integrity and reliability of GNSS signals. The Anti Jamming & Spoofing system can detect and warn of jamming and deception attacks on various GNSS, including GPS, and ensures that the normal position is continuously maintained in the event of spoofing.
Additionally, GNSS situations can be analyzed and stored, allowing the situation at the time of disruption and deception to be accurately reproduced.

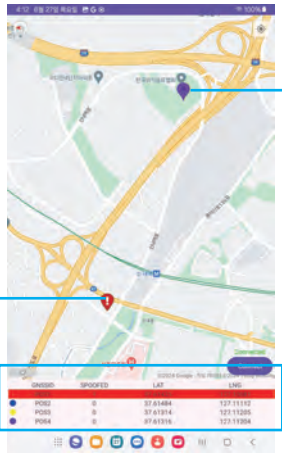
- **Real-time monitoring -** Monitor GNSS systems in real time, display equipment status and information on maps
- **Various GNSS analysis** - GPS, GLONASS, Beidou, GPS L5 monitoring
- **Advanced signal analysis** – Analyze the integrity of GNSS signals and check for deception by comparing visual information
- **Rapid detection and warning** – Jamming and spoofing attacks are detected in real time and alert users immediately.

Characteristic
- Reliable GNSS signal detection
- Easy accessibility and alarm through Android app

Software

- Available as an Android APK
- Show individual locations(GPS/GLONASS/Beidou)
- Analyze received reception sensitivity, satellite status, visual information, location information, etc. in real time to determine whether there is interference or deception.
- Save GNSS Log(1 month or more)





Jammer & Spoofer

Hardware

- Power button : operation of equipment(Setup time takes more than 3 minutes)
- Status display LED : Lights up when Jamming or Spoofing
- Receiving antenna Port : GPS L1/L5 and GLONASS/Beidou
- Power jack : Input 5V/1A

HelloSat-AS4
(Anti spoofing system)

Parameters	Description	
Target	GPS L1	1,575.42MHz
	GLONASS	1,602MHz
	Beidou	1,561.098MHz
	GPS L5	1,176.450MHz
소프트웨어	Network	Wi-Fi/Ethernet(option)
	Operating system	Android(APK)
	Jamming	Detection(>5dBm)
	Spoofing	Detection(GPS/GLONASS/Beidou)
	Anti-spoofing	Normal position
	Log save	GNSS low data(1 month)
	Look up	Period / Event
알람	Jamming	LED and Buzzer
	Spoofing	LED and Buzzer
동작 온도	-40°C ~ 85°C	excludes AC adapter
안테나	2X SMA 50Ohm	GPS L1, GPS L5, GLONASS, Beidou
전원	DC 5V/1A	Adapter(100~240VAC, 50/60Hz)
제품 크기	23X20X7(cm)	Main body(Excluding case)
무게	1.5kg	Main body(Excluding case)

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