GPSensor

Focus
Telecom
TIMING & SYNC SOLUTIONS

Monitoring PNT Jamming Threats

Monitor PNT for GPS Vulnerabilities

Visibility of jamming attacks is essential to protecting critical infrastructure.

The GPSensor is a standalone device that monitors GNSS frequencies and reports intentional and unintentional attacks. It carries out regular monitoring of each site and transmits critical information in real-time over a cellular link, either to our InfiniDome cloud or to the customer's dedicated cloud.

Key Features

- Easy to install and use
- Compact and portable
- Regular monitoring of jamming threats at each site
- Alerts of intentional and unintentional attacks on GNSS frequencies
- Easily identify which site is under attack
- Intensity of the attack at any given moment and how it changes over time
- Duration of the attack
- Displaying daily/weekly GNSS & cellular data

Ideal GNSS Surveillance Solution

GPSensor can be deployed in multiple locations throughout critical infrastructure sites such as airports, railway stations, large campuses and many more.

It collects data on jamming attacks and GNSS performance. Our InfiniCloud management system takes the collected data and gives a geographical view that allows you to determine the extent of the problem, time & location of the attacks as well as reporting of some GNSS metrics. GPSensor is also ideally suited to monitoring the health and consistency of the GNSS signal in organisations that radiate GNSS signals for ticketing and other applications.
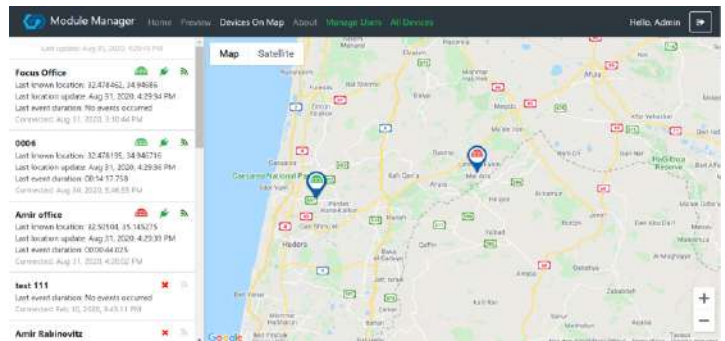
InfiniCloud monitoring and management

GPSensor provides real time monitoring that is reported to our security cloud (InfiniCloud) over a cellular link, or to the customer's dedicated cloud:

- Alerting of intentional and unintentional attacks on GNSS frequencies
- Which site is under attack
- Intensity of the attack at any given moment and how it changes over time
- Duration of the attack
- Regular monitoring of each site, displaying daily/weekly GNSS & cellular data:
  - Number of satellites tracked
  - Quality of satellite reception (SNR)
  - Quality of cellular reception

InfiniCloud Features

- Cloud based monitoring of critical assets
- Industry's first GPS cyber attack monitoring and management system
- Allows for control and visibility of GPS health and attacks for critical assets
- FCAPS - Fault management and handling, module Configuration, Accounting (Inventory), Performance, and Security management
- Geographical map that displays location and status of all monitored devices in real time
- Dashboard reporting of current GPS (GNSS) status, cellular signal quality, and detailed GPS attack information.

Specifications

GPSensor Contents
- Main enclosure
- 2 x 26dB antennas with mounting brackets and cables

RF Interfaces
- Main Enclosure: 2 x SMA 50Ohm (for antennas)

Power
- Power supply: External AC adapter - not included
- Power Connector: 2.1mm x 5.5mm
- Adapter Rating: Input 100-240VAC, 50/60Hz, 1.5A Output 24VDC 2.5A, 60W MAX.

Management
Platform: InfiniCloud
Connection: Wireless connection using built-in international SIM card

Environmental (excludes AC adapter)
- Operating Temperature: -40°C to +85°C
- IP Rating: IP55

Mechanical
- Dimensions (hwd):   275x155x85mm excl connectors
- Net Weight: About 0.8kg
- Mounting: Mounting screws not included

Regulatory Compliance
- FCC part - 15B
- FCC47 CFR Section 2.907/2.906
- CE 2014/30/EU EMC
- 20011/65/EU+EU2017/2102 RoHS
- (EC) 1907/2006 REACH
- EN301489-1, EN301489-3

Ordering Information:
GPSensor Part no. 6414

About Focus Telecom

Focus Telecom is a global provider of time synchronization solutions since 1995, offering consulting, cyber defence and synchronization solutions. Our end-to-end timing solutions generate, distribute and apply precise time for multiple industries: Communications, Government & Security, Finance & IT, Industry & Infrastructure. We enable our customers to build more reliable networks and systems supporting today's precise timing standards.

Want to learn more?

Contact Focus Telecom to find the right products and technologies for your timing and synchronization needs.

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