BROADSENSE

GPS Jamming and Spoofing Detection Sensor

WHAT IS BROADSENSE?

BroadSense is a GPS jamming and spoofing detection sensor. Utilizing sophisticated GNSS receivers and 75+ advanced algorithms, BroadSense can detect when the GPS signal or GPS spectrum is compromised.

ASSURE YOUR PNT

An increased number of GPS jamming and spoofing attacks have been reported and documented over the past five years.

With high quality software-defined radios (SDRs) becoming more affordable, hardware capable of GPS jamming and spoofing is more available than ever.

There is now open source software available that can turn these low cost SDRs into GPS simulators and jammers.

It is more critical now than ever to ensure the necessary precautions are taken to protect your PNT systems.

Talen-X's jamming and spoofing detection algorithms have been rigorously tested and field proven dating back to 2008.

Talen-X is continually updating our detection capabilities to conform to emerging threats and jamming and spoofing signals.

FORM FACTORS

HANDHELD (BSHH) $5,000

MICRO (BSμ) $3,200

TALEN-X
COMMUNICATE - NAVIGATE - EXCEL

WEBSITE
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CONTACT
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☑ REQUEST A QUOTE
☑ SCHEDULE A DEMO

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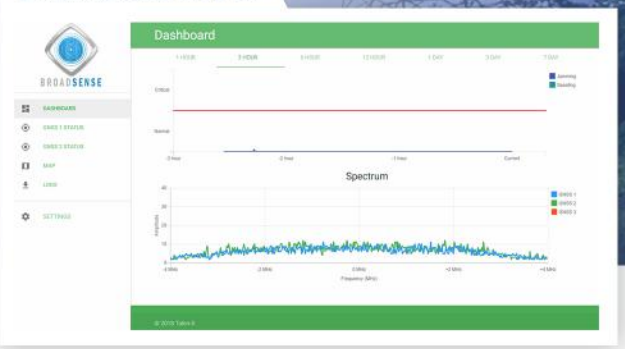
APPLICATIONS

GPS is used in nearly every critical infrastructure system that we depend on to maintain our way of life.

- Power Grid System
- Transportation centers
- Self-Driving Cars
- Banking Operations
- Farming, food and agriculture
- Nuclear reactors, materials and waste
- Cellular communication networks
- And many more...

Without the ability to detect when GPS jamming or spoofing is taking place, these systems can become unreliable due to the incorrect reporting of time or position from the GPS receiver. BroadSense acts as a first line of defense to detect jamming or spoofing signals.

BROADSENSE WEB UI



DETECTION

JAMMING

- CW Tone
- Swept CW
- Pulsed CW
- AWGN
- BPSK
- BOC
- More...

SPOOFING

- GNSS Simulators
- Anomalies in the GPS Data
- Data inconsistencies
- Jumps in position and time

BROADSENSE MICRO (BSu)

- 6 LED indicators for real time status
- Tri-color system status
- Normal (green)
- Spoofing (yellow)
- Pulse Per Second (PPS) for receiver 1
- Pulse Per Second (PPS) for receiver 2
- Power
- Power via USB mini or 5V barrel
- 1 PPS output through SMA connector
- Powerful WebUI for monitoring, configuration and access to data
- 2 embedded Ublox M8 receivers

BROADSENSE HANDHELD (BSHH)

- 2 Internal Ublox M8 receivers (integrated antennas)
- Open Windows 10 platform (can be leveraged for more)
- i5-6500U processor with 8GB of memory
- 10.1 full HD (1920 x 1080) LCD with capacitive touch
- Vibe & shock resistance MIL-STD-810G
- EMI / EMC Tolerance MIL-STD-461F
- Water and Dust Resistance IP65

TALEN-X