

BroadSense

GPS Jamming and Spoofing Detection Sensor

What is BroadSense?

BroadSense is a GPS jamming and spoofing detection sensor designed to provide real-time and historical situational awareness data. Utilizing sophisticated GNSS receivers and patented jamming and spoofing detection algorithms, BroadSense can detect when the GPS signal or GPS spectrum is compromised.

Critical Infrastructure Relies on GPS

GPS is used in nearly every critical infrastructure system that we depend on to maintain our way of life, such as power grid systems, transportation centers, cellular communication networks, banking operations, agriculture and more...



Trust in Orolia Defense & Security

You can rely on Orolia's PNT solutions knowing that BroadSense algorithms have been rigorously tested and field-proven for over a decade. Our detection capabilities are regularly updated to conform to new and emerging threats.



Attacks on the Rise

An increased number of GPS jamming and spoofing attacks have been reported and documented in recent years. With high quality software-defined radios (SDRs) becoming more affordable, hardware capable of GPS jamming and spoofing is more available than ever. Open source projects have been found to turn these low cost SDRs into GPS jammers and spoofers. It is more critical now than ever to ensure the necessary precautions are taken to protect your PNT systems.



BroadSense Nano

BroadSense Nano is a low size, weight and power (SWaP) all in one jamming and spoofing detection sensor, making it extremely easy to integrate and operate. It utilizes a sophisticated multi-frequency GNSS receiver, an integrated antenna and advanced algorithms. This allows BroadSense Nano to detect GPS jamming on multiple frequency bands of the GPS spectrum and give accurate figures showing the jamming power level in the environment.

Low SWaP (Size, Weight, and Power) Specs	
Size: 41 x 41 x 19mm (LxWxH)	Weight: 46 grams
Power Consumption: 0.7 watts	Operating voltage: 5V

BroadSense Nano Key Features
Integrated antenna
Patented detection algorithms
J/S measurements for L1 and L2
Real-time visual data output (screen)
Custom NMEA output message via USB or UART

BroadSense Nano Recommended Applications		
UAV Platforms	Dismounted Warfighters	Cell Towers
Situational awareness in GPS degraded or denied environments		

