

ThreatBlocker

GPS Jamming and Spoofing Data, Detection, and Protection



The Problem

- The world has become dependent on GPS to maintain our way of life
- Jamming and spoofing hardware/open source software is more accessible than ever before
- New solutions require system overhauls, changing all GPS components and antennas
- Solutions that protect the integrity of our GPS systems are required today

The Solution

ThreatBlocker provides GPS jamming and spoofing data, detection, and protection; leveraging Orolia Defense & Security's patented BroadShield software and The Aerospace Corporation's BLISS (Blind Interference Signal Suppression) algorithms. It is configurable to meet your requirements and is designed to be installed in-line with your existing hardware. Install ThreatBlocker in-between a FRPA (Fixed Radiation Pattern Antenna) and GNSS receiver/system. Threatblocker has LED status indicators for real-time awareness, robust API for data output, and an intuitive web user interface to view real-time and historical data.

WHAT IS BROADSHIELD?

Patented GPS jamming and spoofing detection algorithms.

WHAT IS BLISS?

A digital processing technique to suppress jamming signals.

NEW CAPABILITIES

- L1 & L2 anti-jam (AJ) capabilities
- L1 & L2 jamming detection
- L1 & L2 J/S measurements
- Ideal for common jammers

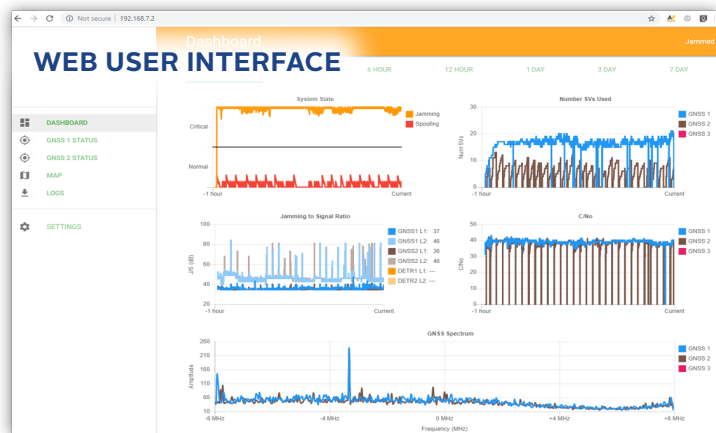
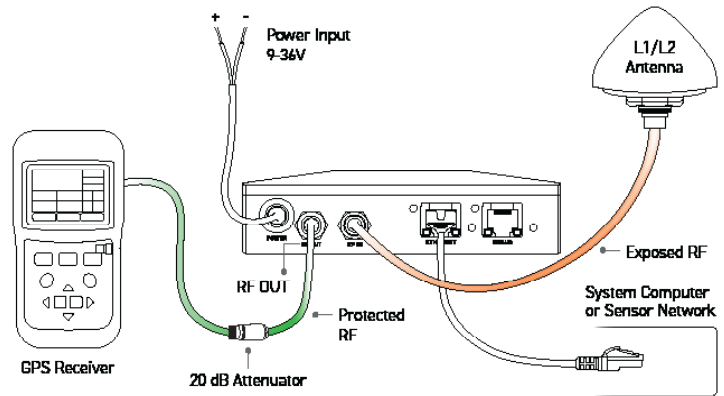
Specifications

Size, Weight and Power
Size: 144 x 164 x 32mm (WxDxH)
Weight: 840 grams
Power: 10 Watts (Peak)

Data output via Light Weight Ethernet (LWE)
Built-in API
RaptorX plugin
WebUI

Ruggedization and Compliance Certifications
Wide voltage input: 9-36V
Operating temp: -40C to +85C
RoHS 3, Safety EN 60950, CE
Environmental MIL-STD-810, IP67
EMI/EMC EN 55032, FCC 47 CFR PART 15/ EN 55024/2014/30/EU

STANDARD CONFIGURATION



PLOT - LIVE FIRE FIELD TEST

Data output from ThreatBlocker is compatible with an existing RaptorX plugin, allowing for a GPS jamming heat map. Blue corresponds to low J/S while red corresponds to high J/S.

J/S MEASUREMENTS - LIVE FIRE FIELD TEST

