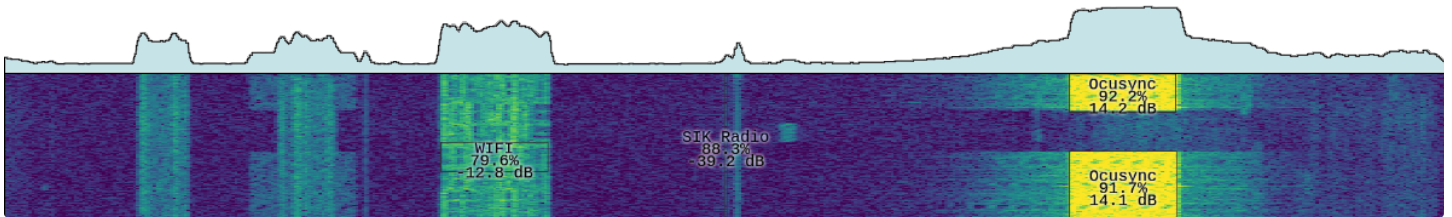




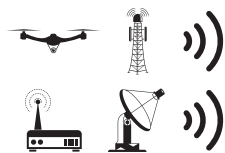
AirStack and OmniSIG® - Turn-Key RF Intelligence



OmniSIG - created by DeepSig - is a machine-learning software application that provides RF situational awareness at the edge. DeepSig's custom neural network provides real-time identification, classification, and localization of known and unknown RF signals.

Deepwave's software and hardware platform can be pre-configured with OmniSIG. This tightly integrated solution runs OmniSIG on Deepwave's platform, which delivers AI supercomputing at the edge in a compact software-defined radio.

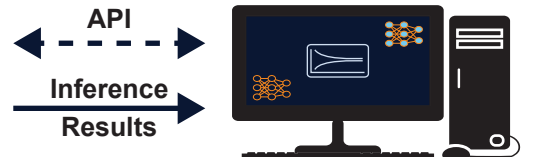
This plug-and-go joint solution delivers critical, low-latency RF situational awareness for communication signals, drone detection - and more.



RF Signal Sources



AIR-T + OmniSIG
(Receiver & Edge Processor)



Analytics and Monitoring
(Cloud or On-Premises)

Key Specifications

AI Signal Classification

- Cellular / WLAN
- TV/Radio
- UAS/Drones
- Land Mobile Radio
- IoT Devices
- Unknown Signals
- Custom Models

Power

PoE++ or 12 VDC (30 W Typ.)

RF Performance

- 125 MHz Bandwidth / Channel
- 2 channels or 4 channel available
- 300 MHz to 6 GHz
- +35 dB gain (3.0 dB NF)
- +20 dBm TX power (Max)

Interfaces

- 1 GbE RJ45 port
- 2TB NVMe storage
- USB & HDMI

Clock and Timing

- GPS Receiver (5 ns accuracy)
- 10 MHz reference input/output

Form Factor

- Portable / Desktop
- 1U Rack Mount Kit (Dual Units)

Mechanical

18.7 x 23.0 x 4.4 cm (7.3 x 9.1 x 1.7 in)

Configurations

AIR7310-B-OMNI

- 2 RX coherent channels
- 1.5 kg (3.3 lbs)

AIR7311-B-OMNI

- 4 RX coherent channels
- 3.4 lbs (1.54 kg)

