SDRNode - SmartLeopardo

SPECTRUM ANALYSIS FOR THREAT DETECTION



Options

- Additional receivers for faster characterisation
- Additional fingerprint detectors
- Rugged enclosure
- Wall mount / Mast mount
- 3G/4G modem with SMS alerts

Features

3200 MHz Real-Time Bandwidth - Direct Conversion Receiver

- Analysis and characterization of detected signals
 - Logging & reporting
 - Detection & estimation of communications
 - Threat detection
 - Jammer detection
- Full Web interface multi-user interface
- "Drop & Forget" mode: run spectrum analysis in silent mode with encrypted data storage

Functionalities

- Spectrum Monitoring
 - 6.4G Samples/sec. SDR capabilities
 - 40 full band analysis / second
 - Analysis resolution: 12 kHz from 100 to 3200 MHz
 - Web interface
- Signal Analysis
 - Analog Modulation detection (AM/FM)
 - Digital Demodulation parameter estimation
 - DMR/TETRA detectors (signal fingerprint analysis)
 - Can detect transmitters (FPV, IRIDIUM, ...)
- Connectivity
 - REST API for remote control
 - Notifications (SMTP,MQTT,API)
 - Data pushed to remote infrastructure

PRODUCT UNDER EXPORT CONTROL

Sensors to Detect, Analyze and Process Radiocommunications

SDR Technologies

Spectrum Monitoring

1 A 6.4 Giga samples/sec. ADC Direct conversion receiver continuously monitors the spectrum and de-

tects changes in designated spectrum segments.



Modulation Characterisation

2 Narrowband receivers are then used to capture portions of the signal where activity has been detected and to estimate the signal type.

All detections are stored in the local database; events can be forwarded to remote IT infrastructure or C2.

SCANNER Q Overview - last 24 hours . ID Date (UTC) Freque Level (dBm) SNR (dR) 466.170 466.243 39 466.237 466.182 466.182 466.243

Specifications

Case	Aluminium
Dimensions	L250mm * P250mm * H75mm
Weight	2kg
Power	10v to 19v DC @15W max
Connectors	N or SMA, frontside or backside

Engineered & manufactured in France

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