#### Data sheet

Bandwidth	Up to 50 MHz per band
Spectrum resolution	Configurable with windowing options
Input RX sensitivity	-105 dBm (input NF: 1 dB, RF cable loss: 10 dB)
Supported analyses	Interference detection and characteri- zation based on pre-defined mask
Outputs	Automated reports Email notifications Power spectrum Spectrogram Binary output
Other	Configurable notch filter Post-processing utilities (optional) Reference aviation standards: ICAO Annex 10 ICAO Doc 8071 Volume I
1/0	RF input: dual SMA HDMI and USB for maintenance tasks Ethernet connectivity
Antenna	Optional
Environmental	SRX-10i: -10°C to +50°C
Certification	Electromagnetic Compatibility (EMC): Directive 2014/30/EU Low Voltage Directive (LVD): 2014/35/EU RoHS

# SRX-10i

A product by:





#### For more information:

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# SRX-10i

GNSS interference detection





## What is *SRX-10i*?

**SRX-10i** is an interference detection and analysis system in the GNSS bands. The system consists of remote Monitoring Nodes to detect GNSS interferences and one Central Node to collect the alerts and to analyze the interferences.

### Motivation

**Global Navigation Satellite Systems (GNSS)** are a key enabler to more efficient:

- Telecommunications (5G).
- Maritime and air navigation.
- Fleet tracking and autonomous driving.
- Energy infrastructure and network timing.
- Asset management (IoT).

*SRX-10i* stands out as a versatile, rapid deployment solution for monitoring the spectrum for all the sectors above.

#### Case study: aviation

According to Eurocontrol, 38.5% of European en-route traffic operates through regions affected by RF interference (RFI). This increasing reporting of potencial GNSS outages has put at risk the benefits of using GNSS-based procedures in the aviation industry.

Moreover, GNSS RFI has an impact on

- Network efficiency since some of current navigation procedures shall fall back on traditional navigation aids.
- Air traffic management (ATM) and pilots workload.
- ANSPs since it requires maintenance and continued investment on alternative Communications, Navigation and Surveillance (CNS) systems to mitigate GNSS outages.

### What is SRX-10i?

*SRX-10i* system enables a cost-effective dual-band simultaneous spectrum monitoring and detection of interferences for safety critical applications.



# SRX-10i : a proven record of success

**SRX-10i** is operative in both aviation and maritime premises.





#### System Architecture

**SRX-10i** is a turn-key modular system and comprises the following elements:

- RF front-end with dual-band multi-constellation capabilities.
- Real-time interference detection, alert triggering and reporting.
- RFI analysis tools (offline).





# SRX-10i GNSS spectrum monitoring for protecting the

most valuable



