v120422

Spectrum Compact

PAY LESS TO BECOME AGILE

spectrumcompact.com

SAF Tehnika Has 20+ Years of Experience in Wireless Link Deployment

T&M

Test and Measurement
spectrumcompact.com

Microwave radio
saftehnika.com

Internet of Things
aranet.com

Key Facts:

- Global presence and extensive partner network in 130+ countries
- Large-scale production capabilities
- Custom solutions for our clients

Use Spectrum Compact for a Variety of RF Field Tests

1. Link Troubleshooting
2. Signal Coverage Testing
3. Radio Parameter Verification
4. Interference Hunting
5. Line of Sight Verification
6. Precise Antenna Alignment

Perfect T&M Solution for RF Field Tests

Fits in your hand, pocket or harness

Completely stand-alone in the field mode

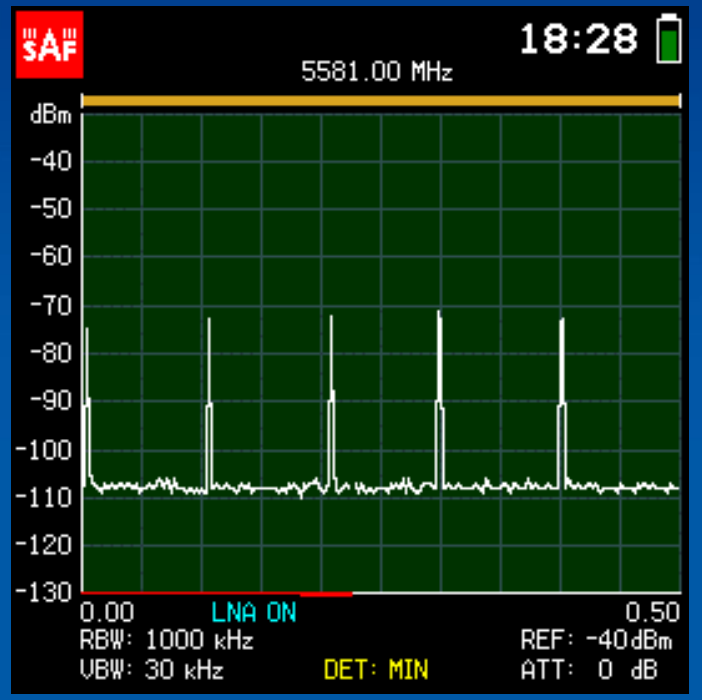
Instant ON and data logging

Works perfectly with gloves

Battery time up to 4 hours

Zero-Span Feature for Spectrum Compact v2

Zero-Span view



Power

Time

Applications

- External PIM hunting
- Detection of TDD signals, e.g. Wi-Fi, 5G, LoRa
- Channel power measurement for narrowband signals
- Satellite antenna alignment

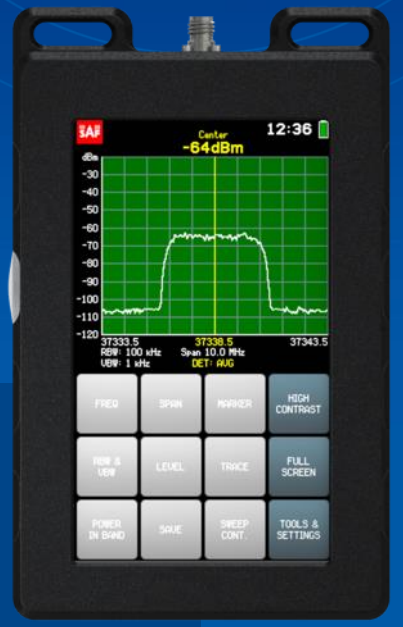
We offer a Complete and Customizable RF Solution Tailored to Your Needs

Spectrum Manager
PC Software & API

CONTROL

DATA

Spectrum Compact
Spectrum Analyzer



SIGNAL

SG Compact
Signal Generator

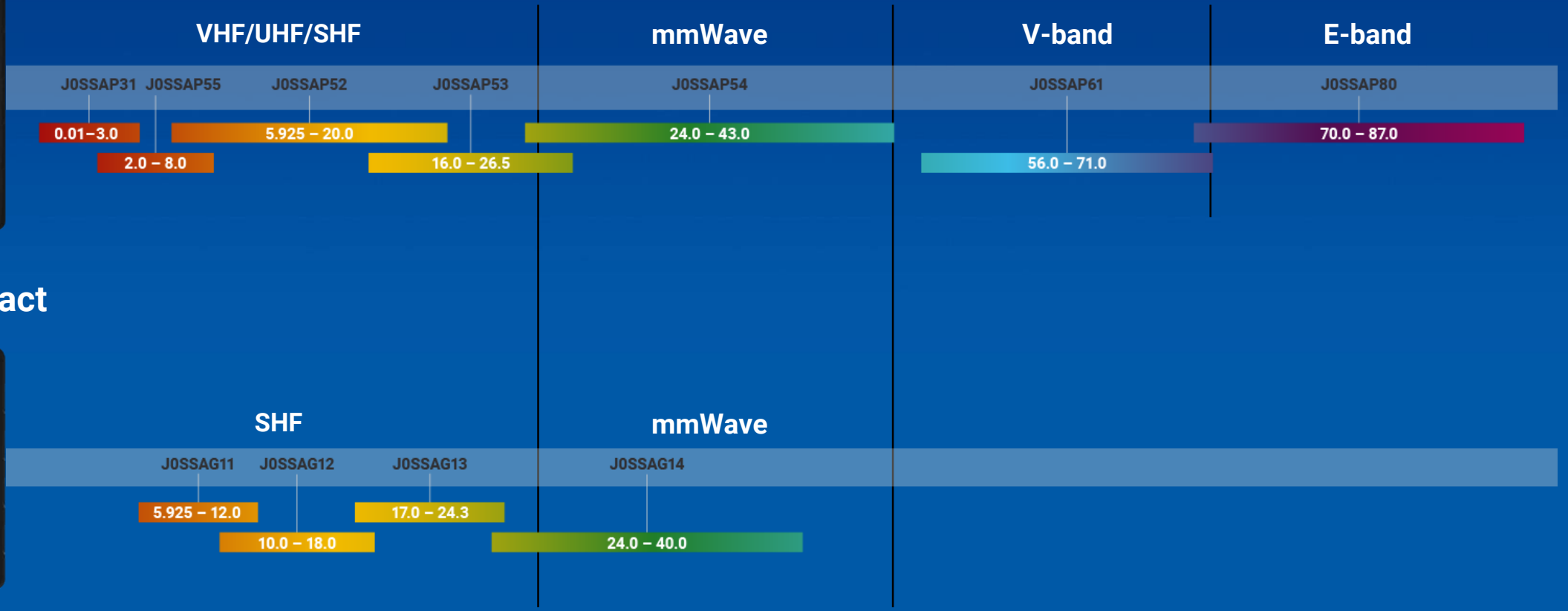
CREATING A SOLUTION KIT

Accessories

- **No extra software costs** and integration with 3rd party software via API
- **Standard 1 year guarantee** with the option to get an extension and experienced tech support
- Quality assurance guarantees device performance in a **-15-55°C (5-131F)** range

Pay Only for the MW Range You Actually Use

Spectrum Compact



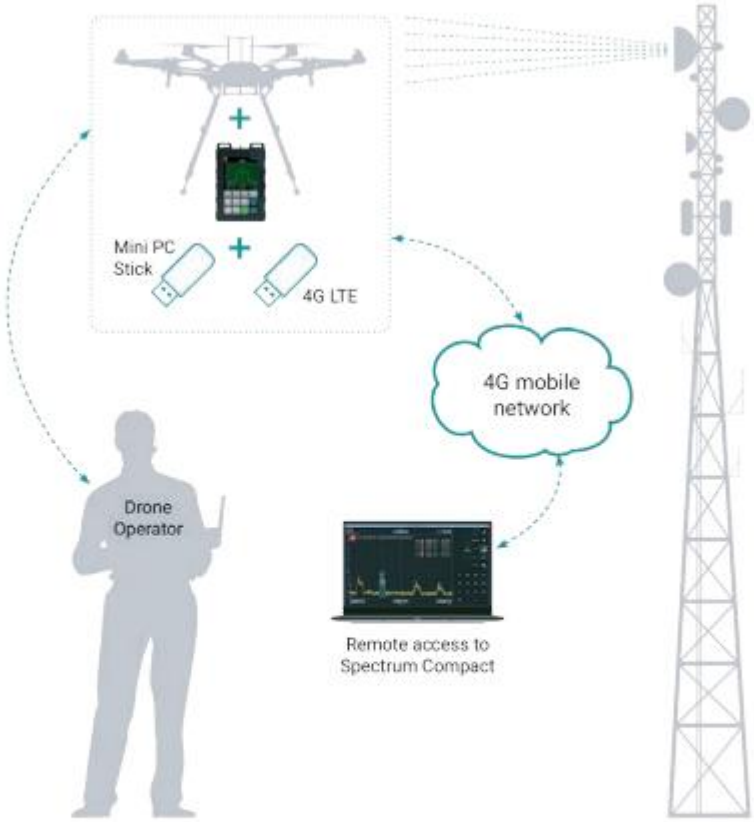
SG Compact

Drone solution

First tests 2019

E-band SC on a drone

General concept



The solution consists of a Spectrum Compact 70-87 GHz unit, mini PC with Windows OS, 4G modem, Spectrum Manager PC software and an unmanned aerial vehicle – drone.

Smaller drone 2022

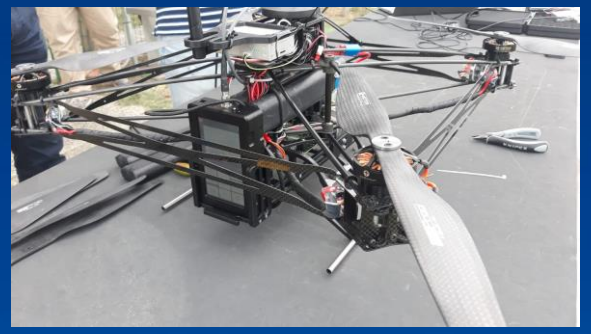
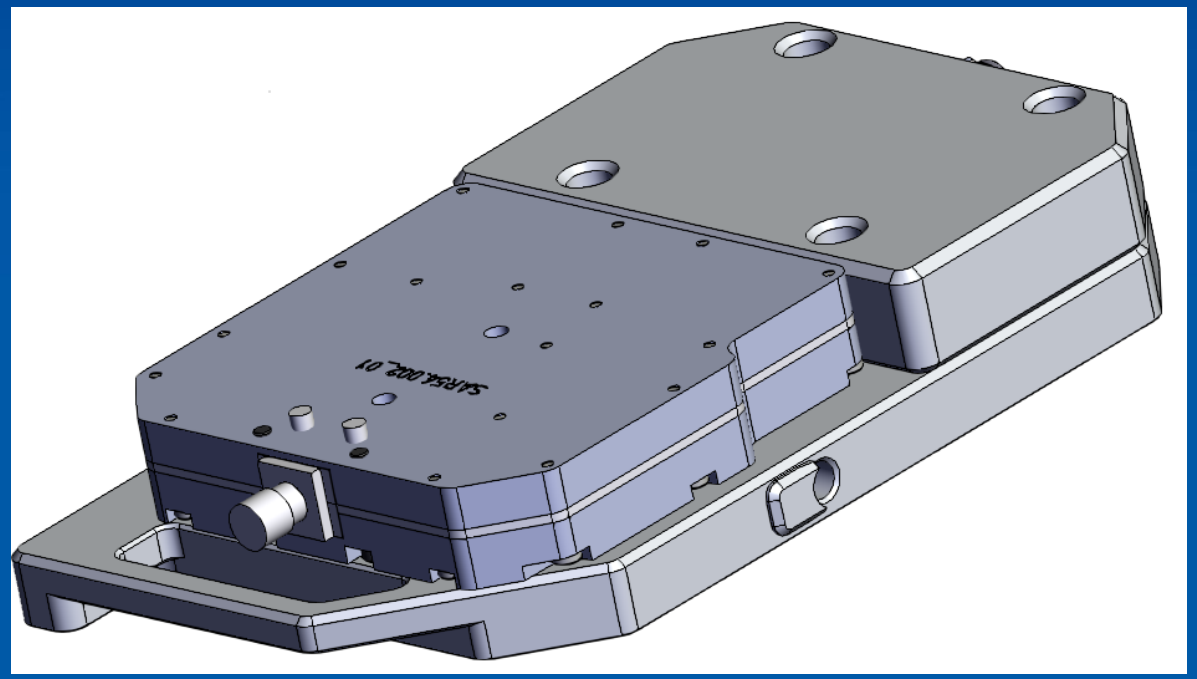
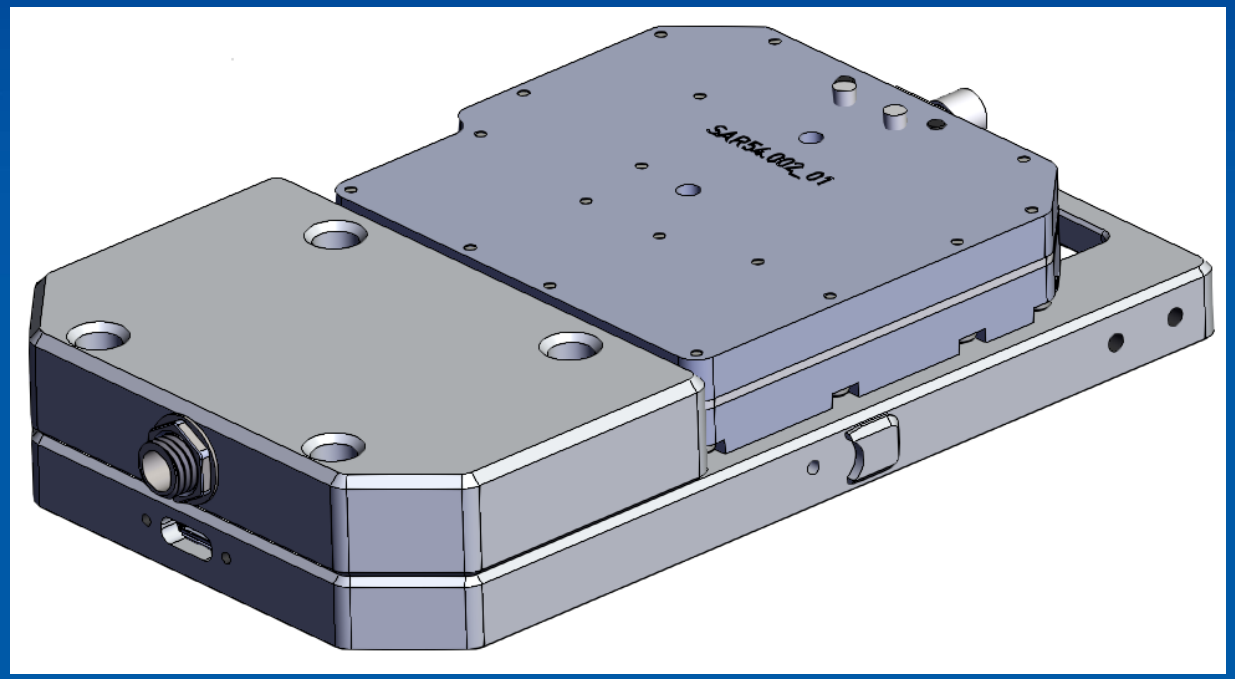


Figure 1. Drone station with the onboard measurement equipment.

Spectrum Compact module

- No screen, no built-in batteries
- Requires external power supply
- Controlled via open API over the serial connection
- Weight: ~ 0.45 kg
- Dimensions: 145 x 85 x 27 mm
- Interfaces: RF input, USB-C, DC input





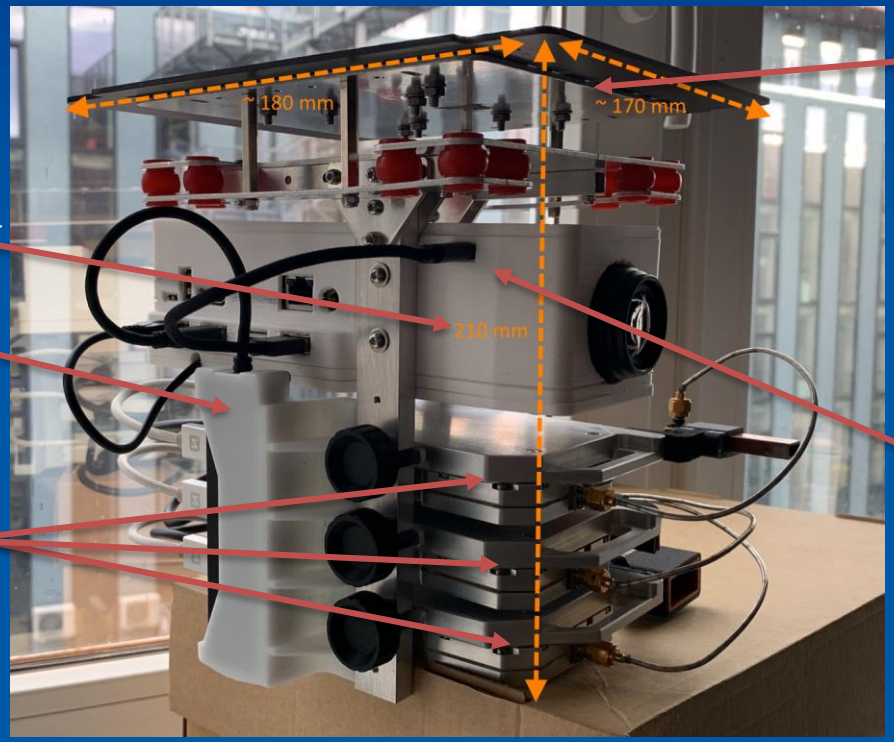
Drone solution for RF regulatory authorities

Electronic Communications Office of Latvia (project owner)

technology innovation company **LMT** (Software)

SAF Tehnika JSC (Hardware)

- [Using an unmanned aerial vehicle (drone) to monitor radio communications]
- [Infrastructure inspection by drone]



Mini-PC, camera

USB hub

Spectrum Compact modules with waveguides / antennas

Bottom plate for attachment

Pack with replacable batteries for powering SCs (behind camera)

Below 3 kg

Conclusions and comments

Spectrum Compact can be a good fit as stand-alone hand-heald device

SAF provided hardware is ready for drone integration, but we are not drone providers or software company

A single drone solution will not fit all applications

SAF Tehnika is planning to provide chassis with SC modules and software

Early-stage prototype

Spectrum Compact Clients

Thanks!

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