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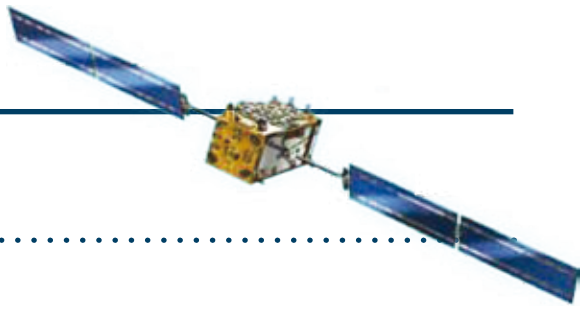
OHB AUSTRIA

GNSS QUALITY ASSURANCE

GIDAS Portable

The stand-alone GNSS monitoring solution

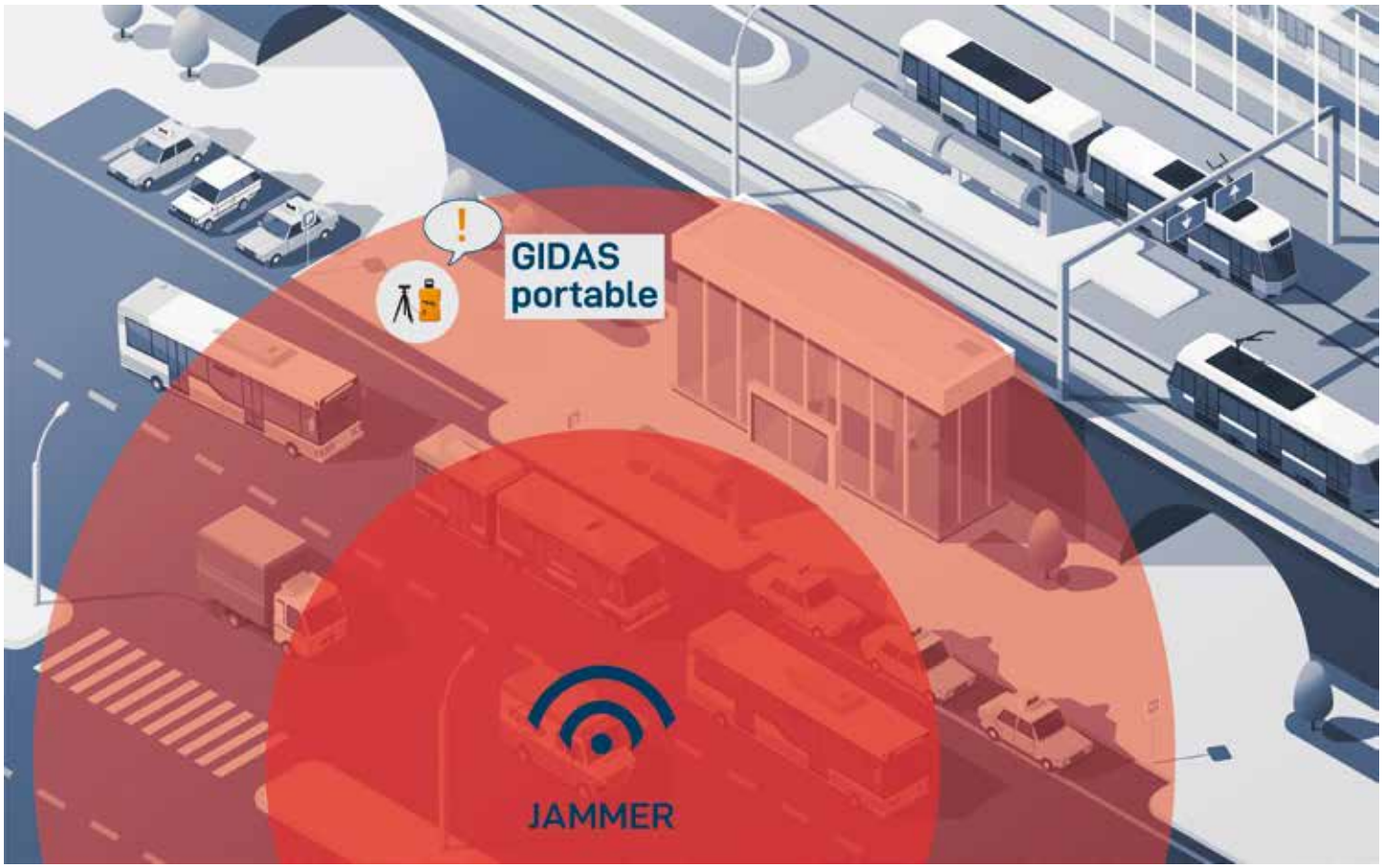
Gain real-time GNSS quality insights anywhere, anytime for on-the-spot awareness and decision-making



KEY FEATURES

Supported GNSS signals	GPS: L1 C/A, L2C, L5 Galileo: E1B/C, E5a, E5b, E6 GLONASS: G1, G2 BeiDou: B1, B2 SBAS: EGNOS, WAAS, GAGAN, MSAS on L1
Bandwidth	up to 56 MHz per band
Dynamic range	2 x 12 bit (complex) ADC
Interference detection	Jamming, Spoofing
Monitoring features	Real-time monitoring and interference detection Classification of interference sources Angle of arrival estimation of interference sources Automatic alerting via multiple interfaces Detailed analysis in post-processing
Operating modes	Stand-alone monitoring for detection and classification Network monitoring for detection, classification and localization
Outputs	Interference alert Interference detection details Interference classification details Interference localization Automatic reporting Recording of signal snapshots (incl. metadata description according to ION's GNSS SDR metadata standard) Log-Files (proprietary formats)
Standards supported	ICAO Annex 10 - International Standards and Recommended Practices ICAO Doc. 8071 - Manual on Testing of Radio Navigation Aids RTCA DO-229D - Minimum Operational Performance Standards for Global Positioning System / Wide Area Augmentation System Airborne Equipment
Alerting	via GUI, TCP/IP, email, custom alert interface (e.g., alert device for air traffic controller)
Alarm latency	< 6 seconds (avg. < 3 seconds)
Detection thresholds	User definable or predefined (e.g., ICAO, RTCA) threshold masks
Output update rate	1 to 10 Hz (configurable)
Detection probability	> 99 % for ICAO thresholds
Jamming classification	Classification regarding the spectral characteristics
Supported jamming signal types	Pulsed and non-pulsed Amplitude modulated (AM) Frequency modulated (FM) Continuous wave (CW) Swept continuous wave (SCW)
Time / spectrum resolution	Configurable Frequency resolution typically 1 kHz Time resolution for classification typically 10 µs
Angle of arrival	The dual-module antenna supports angle of arrival measurements
Graphical user interface	Multi-user web client
Power supply	230 VAC, external battery solution
Case	Peli 1535 Air, 558 x 355 x 228 mm, IP65 & MIL-SPEC certified
Operating environment	Temperature: - 20 ° to + 40 ° C
Connections	2 x TNC for GNSS antennas, 1 x power, WiFi IEEE 802.11b/g/n, 4G / LTE (Cat 4), 3G, 2G
Usability	Designed for fully autonomous , portable use

GNSS QUALITY



OHB's GIDAS Portable is a fully autonomous, portable, real-time system to monitor the GNSS services wherever needed. If any interference is detected, the user gets alerted either via the user interface, email or any custom interface. The system is operated via a graphical user interface. For local use the tablet with the user interface can be connected via WiFi with the processing unit in the suitcase. Alternatively, for remote operation and display of information, the user interface can be accessed via data connection from remote locations. GIDAS Portable is powered by a 230V power supply and can also be powered by a portable battery, optionally supported by a solar power source.

GIDAS Portable's core is formed by multiple jamming and spoofing detection techniques developed in more than 15 years of research. The smart combination of different monitoring approaches makes for a robust statement of the current local integrity of the GNSS positioning and timing services. GIDAS Portable is specifically designed for temporary installation or fully portable use and can detect and classify a wide range of jamming and spoofing signals. Aside from fully autonomous operation, GIDAS Portable can be operated as a portable monitoring sensor within a static GIDAS installation.

- The complete GIDAS system is packed within a waterproof IP-rated, portable case.
- GIDAS Portable comes with a rugged and IP-rated operator tablet.
- Depending on customer needs, the dual-module GNSS antenna comes with a magnet mount for tripodless application or with a standard mount for tripods.
- The dual-module GNSS antenna, the operator tablet, and all required cables can be stowed in the case.
- GIDAS Portable can be operated fully autonomously or can be used as a portable sensor within a stationary GIDAS system.

GIDAS PORTABLE

GIDAS Portable is used to monitor the GNSS signals and services wherever needed. It is designed to be temporarily deployed at any site and any weather. OHB's **GIDAS Portable** is used by frequency regulation authorities, GNSS-based toll enforcement agencies and many more to detect GNSS interference. **GIDAS Portable** addresses private companies as well as public and governmental bodies.

The first step towards safe GNSS applications is the awareness of present threats - **GIDAS Portable** detects, classifies, and alerts if GNSS is about to be interrupted. OHB makes your GNSS-dependent application more robust.

Get in touch with us to learn how we can make your GNSS-based operations safe!

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OHB Austria GmbH

OHB AUSTRIA

Kärntner Straße 7b/1
A-8020 Graz, Austria

+43-316-890971-0
www.ohb-austria.at
office@ohb-austria.at