

## **GNSS Receiver Lab Testing is Outdated**

### **Mobile test environments for onsite testing is the future you can buy today**

With MGSE<sup>®</sup> (Multi-GNSS Simulation & Test Environment), TeleOrbit GmbH offers a flexible and powerful GNSS receiver test system.

Designed to be used in a laboratory environment (19" rack mount), MGSE<sup>®</sup> also includes a capable industrial-grade PC which powers the subsystems GNSS signal simulation, recording and replay.

Our customers, industry as well as academia, use MGSE<sup>®</sup> to test their GNSS receivers in production and the lab.

In today's world, GNSS receivers are becoming more and more important, e.g. for autonomous driving, precise farming, navigating piste bashers or snow-clearers just to name a few.

In all these use-cases, the GNSS-position needs to be robust and reliable.

Control systems are becoming more and more complex meaning that even the smallest error can cause big problems and lead to severe interferences in day-to-day business. In some cases, errors can only be analysed by checking the whole system, and not just the GNSS-component, because sensors and other elements could cause the problems.

Thanks to our latest development, our mobile GNSS-receiver test system MGSE<sup>®</sup>-GTEC<sup>®</sup> 2.0 (Mobile Record and Replay GNSS Test System) we are now able to offer customers a solution that enables them to provide professional troubleshooting and repairs at their customer's site.

The faulty GNSS-receiver can be tested both static and mobile thanks to MGSE<sup>®</sup>-GTEC<sup>®</sup> 2.0 small footprint, both in size and power-consumption.

The MGSE<sup>®</sup>-GTEC<sup>®</sup> 2.0 test system is DC-powered (5 / 12VDC) and supports all GNSS systems and frequency bands in L- and S-band with up to 68 MHz bandwidth and up to 2x8 bit I/Q bitwidth.

Tests can be done using pre-defined test files or real-world samples that were recorded on site. Test files are replayed via the RF-replaying unit to the antenna input of the faulty GNSS receiver.

Thus, the system is perfectly suited for maintenance / service engineers helping them in their daily work onsite with their customers.

If you are interested in receiving more details about our new MGSE<sup>®</sup>-GTEC<sup>®</sup> 2.0, have a specific use case you would like to discuss with our team or if you are interested in testing the capabilities of our system feel free to reach out to our team!

We look forward to discussing your specific needs with you and to find the best solution for your problem!

Update Nov 4, 2019: new hi-res pictures added



MGSE®-GTEC® 2.0 (Mobile Record and Replay GNSS Test System - Front) (picture © Fraunhofer IIS)



MGSE®-GTEC® 2.0 (Mobile Record and Replay GNSS Test System - Back) (picture © Fraunhofer IIS)