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GNSS SIGNAL SIMULATION

# XPLORA One

## The cost-optimized GNSS Simulator

Achieve high-performance testing with a complete solution, optimizing your development phase



## XPLORA ONE

**XPLORA One** combines the versatile XPLORA Core software with National Instruments USRP hardware for GNSS signal simulation. This portable solution enables pre-created scenarios to be replayed via compact hardware with options for 1, or 2 RF outputs. Designed for general applications, **XPLORA One** offers all XPLORA Core features in non-real-time, making it ideal for testing and validation tasks that do not require extended or real-time simulations. The setup is easy to deploy, using a customer's COTS laptop/PC for seamless operation.

### Key features

GNSS Constellations	Civil: GPS, Galileo, GLONASS, BeiDou, QZSS, NavIC, SBAS
Realistic Simulation	Satellite orbits based on ephemeris or orbit integration; Satellite clock modelling; Ionospheric and Tropospheric delays; Multipath; Antenna gain pattern and obstruction mask
Optional Simulation	Arbitrary Signal(s), Jamming Signals, Spoofing Signals, Multiple Receivers, High-dynamics, Space Borne Receivers
Operating System	Windows, Linux
Quantity of Channels	1 or 2 RF outputs
Bandwidth	Up to 25 MHz or 2x100 MHz
Update Rate	Up to 50 Hz
DAC Resolution	8-bit, 16-bit
Reference Clock	GPSDO $\pm 50$ ns to UTC RMS (1-Sigma) GPS Locked
Dimensions	160 x 50 x 220 mm or 277 x 39 x 218 mm
Weight	1,2 kg or 1,7 kg

Get in touch with us to learn how to increase the accuracy of your testing performance with **XPLORA One!**

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