

# PNT Xe

PNT Test Precision Made Accessible

# Introducing PNT Xe

PNT Xe is making high-fidelity simulation available for every workstation, every engineer, and every project phase. PNT Xe is designed for rack mounting, desk mounting, and portability. With fast deployment and a simple but powerful interface, it gives you all the tools to speed up onboarding, simplify system configuration, and accelerate scenario creation.

Take advantage of the world's leading simulation architecture at a fraction of the cost.



Figure 1. PNT Xe simulation system hardware and software

# Capabilities

## Signal Generation

- Multi-constellation, dual frequency, e.g., L1+L5 / L1+L2
- Pseudorange accuracy 5 mm RMS

## Signal Quality

- Spurious (max) -182 dBW
- Harmonics (max) -40 dBc
- Phase noise (max) 0.02 Rad RMS
- Frequency stability  $\pm 5 \times 10^{-10}$  per day

## Deployment

- Integration testing
- Hardware-in-the-loop (HIL)
- Production testing

# Production Line Testing

From defense to automotive to handsets and wearable devices, production line testing is a critical stage in a product's lifecycle. PNT Xe has been designed for all types of production lines, delivering:

- 2U rack compatibility
- Space-saving desk mount
- Easy portability and quick setup
- Intuitive tool for scenario creation
- Seamless remote interface for test execution
- Support for all current global navigation satellite system (GNSS) signals

# Integration Testing

Efficient and effective integration of GNSS into the test environment is at the core of most positioning, navigation, and timing (PNT)-enabled product development. PNT Xe offers key enablers and capabilities:

- Flexible configuration
- High-fidelity GNSS RF signals with exceptional output power stability
- Support for uninterrupted simulation for up to 24 days
- Simple, low latency integration into HIL test setups
- Low onboarding overhead with streamlined configuration and control
- Minimized risk of downtime with robust, proven architecture
- Accessible price for expanded deployment

Contact your Keysight representative to experience the power of PNT Xe.



Keysight enables innovators to push the boundaries of engineering by quickly solving design, emulation, and test challenges to create the best product experiences. Start your innovation journey at [www.keysight.com](http://www.keysight.com).

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