

Replicate RF Environments

Keysight Understands Your Challenges

As the electromagnetic spectrum becomes progressively crowded, it is increasingly challenging to define and simulate test environments that represent real-world scenarios. Field testing can be both time-consuming and costly, with little probability of reproducing specific vulnerabilities and less chance of investigating the root cause of the problem.

Solving your test challenges

Keysight gives you the ability to test your designs and early prototypes in real-world environments before field deployment.

You now can repeatedly test different scenarios in the laboratory as part of your performance test suite. Our solutions can help you test using the following environment scenarios

- Replicating ISM signals on a busy station platform
- Testing radar signals around a proposed 5G cell site
- Checking for adjacent interference at a satellite ground station

Services

Our general-purpose hardware and software have the capabilities for capturing wideband signals, post-capture analysis, creating custom signals, and generating wideband signals.

Keysight has cost-effective test solutions for replicating signals from actual locations using a graphical user interface.

Using our platforms, you can now

- Initiate recordings
- Preview spectrum and spectrogram create and access a signals library
- Replay signal environments



Keysight Services

Our applications experts are available to share their expertise to address your specific test challenges.

For more information, contact your local Keysight sales representative.

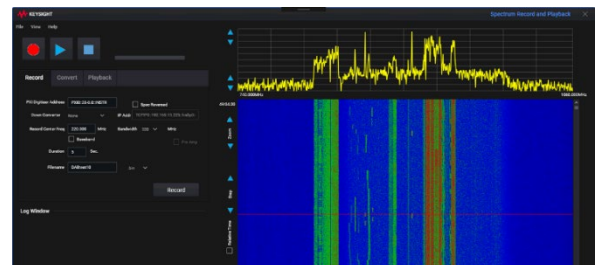


Figure 1. Example of Keysight's software user interface

Compact, commercial off-the-shelf hardware

- wideband signal capture
- streaming signal storage
- wideband signal generation
- comprehensive signal analysis

Scalability for additional functionality

- preselection / filtering
- up- and down-conversion
- multiple channels
- extra memory depth

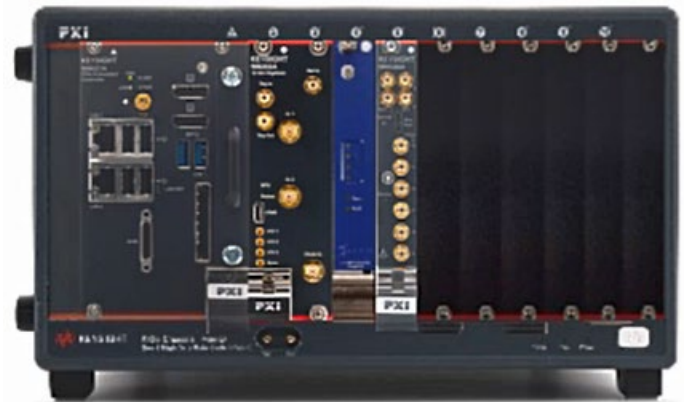


Figure 2. Compact PXIe configuration

The Keysight Z2082E-42x provides RF record / playback using Keysight M9203A digitizer and the Keysight M9336A arbitrary waveform generator in a compact PXI mainframe.

Our Experts

The crowded spectrum represents a challenge for radio coexistence and systems performance. Design validation benefits from both the simulation of the RF environment and exposure to real-world signals. The ability to perform this in the lab, in a controlled and repeatable way, gives measurement confidence in the early stages of the design cycle.

Keysight’s application experts will help you achieve your goals and keep a step ahead of your competition.

Services Description

Consultancy Description	Users	Description	Benefits
Accelerate your measurements	new users or experienced users who need in-depth assistance with specific applications or measurement setup	PS-XPS-100: Configurable for a two-day package or more of on-site support by our Keysight application engineers, to help you to <ul style="list-style-type: none"> • configure the system • capture wideband signals • perform post-capture analysis • generate custom and wideband signals 	<ul style="list-style-type: none"> • Accelerate your time to market. • Reduce the time spent on designing your tests.

For more information, contact your local Keysight sales representative.

To learn more, visit us at [Keysight Consulting Services](#).

Learn more at: www.keysight.com

For more information on Keysight Technologies’ products, applications or services, please contact your local Keysight office. The complete list is available at: www.keysight.com/find/contactus

