Generator of Radio Technical Signals
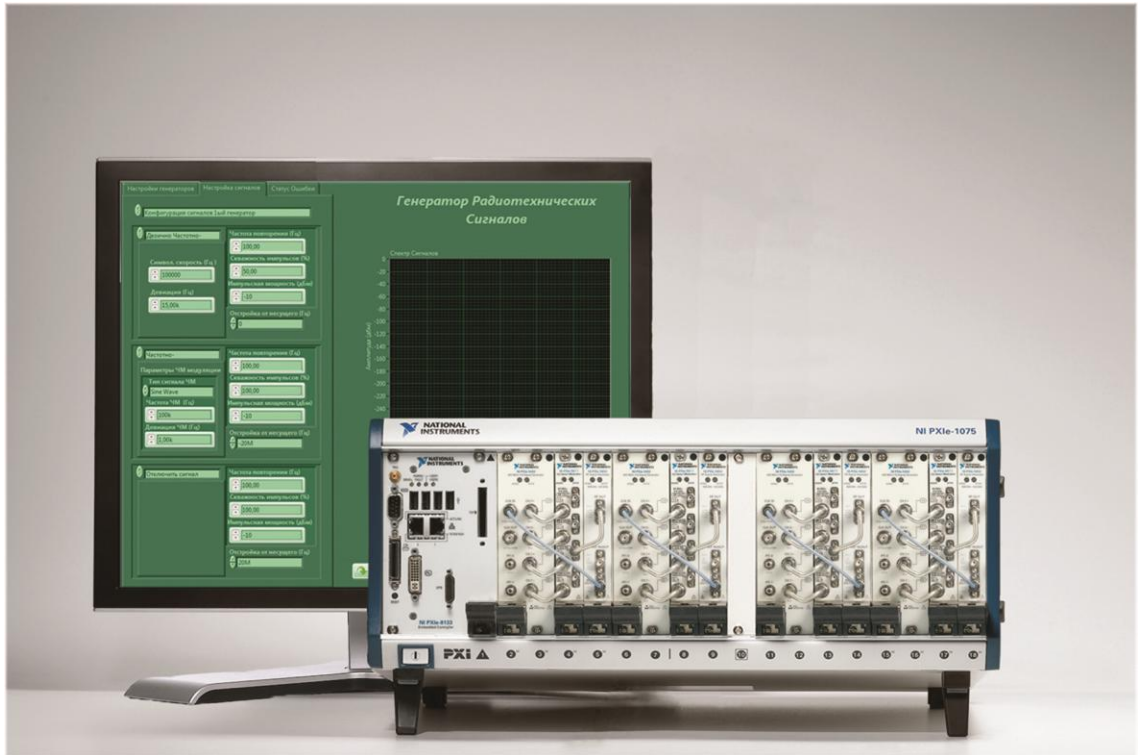
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Overview

The Generator of Radio Technical Signals software is based on the NI PXI platform. Software is developed in the LabVIEW graphical programming environment. It has a simple and intuitive user interface.

The software designed for generation of complex radio technical signals and noises.

The software will help the users to generate RF arbitrary waveform in the 100 MHz real time bandwidth.

Features

- Generation of RF arbitrary waveform
- Generation of different type of noises
- Parallel generation of RF arbitrary waveform from four channels and less
- Each generator tunes to separate frequency
- Synchronization of channels
- Representation of the chosen signal before the generation

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Hardware and software

Hardware	Software
NI PXI platform	Windows 7 (or higher)
	LabVIEW 13 (or higher)
	NI-RFSG
	NI modulation toolkit
	NI spectral measurements toolkit

List of signals and noises generation

1. Harmonic signal
2. Amplitude modulated signal
3. Frequency modulated signal
4. Phase modulated signal
5. 2 ASK modulated signal
6. 2 PSK modulated signal
7. 2 FSK modulated signal
8. White noise
9. Deterministic noise
10. Band noise
11. Pink noise
12. Brown noise
13. Blue noise
14. Purple noise

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