

PXI-5402

PXI-5402 is a 14-bit 20 MHz Arbitrary Function Generator device which has capability of 100 MS/s that feature up to 14 bits of resolution and 32 kB of on board memory for arbitrary function generation in a compact, 1-slot 3U PXI module.

It has Direct digital synthesis (DDS) capability which is used to precisely generate waveforms that are repetitive in nature, including sine, square, triangle, ramp, noise, and DC waveforms.

This device features unparalleled analog output performance in PXI form factor. Using NI-TClk synchronization technology, the user can synchronize multiple NI signal generators for applications requiring a greater number of channels. Because it is built into the Synchronization and Memory Core (SMC), NI-TClk can synchronize NI signal generators with SMC-based high-speed digitizers and digital waveform generator/analysers for tight correlation of analog and digital stimulus and response.

Features

- » Phase-Continuous Frequency Hopping and Frequency Sweeps
- » 400 MS/s Effective Sample Rate with Interpolation
- » 0.355 μ Hz Frequency Resolution
- » $< \pm 0.4$ dB Passband Flatness Across Bandwidth for Sine Waveforms
- » NI-TClk Technology for Timing and Synchronization
- » Built-In Sine, Square, Triangle, Noise Ramp Up, Ramp Down and DC Offset Functions

