

ERISYS

PG-300

IQ Playback Arbitrary Waveform Generator



The PG-300 is a small high performance, low power IQ Playback Arbitrary Waveform Generator capable of transmitting stored IQ data files or directly creating signals using on-board direct digital synthesis.

Key Performance Specifications

- Analog IQ outputs for connection to any Vector Signal Generator.
- 250 MHz max RF output bandwidth.
- Small, Quiet, Fanless operation
- Spurious Free Dynamic Range greater than 70 dBc.

Key Features

- Stream stored IQ files via USB 3.0.
- Generate signals digitally via two on-board DDS modules.
- Generate pulse sequences using Pulse Descriptor Words (PDWs).
- Gain, Phase, Offset, and Group Delay Digital I and Q corrections.
- Partial file and looping playback
- 2x, 4x, 8x, and 16x selectable interpolation filtering.

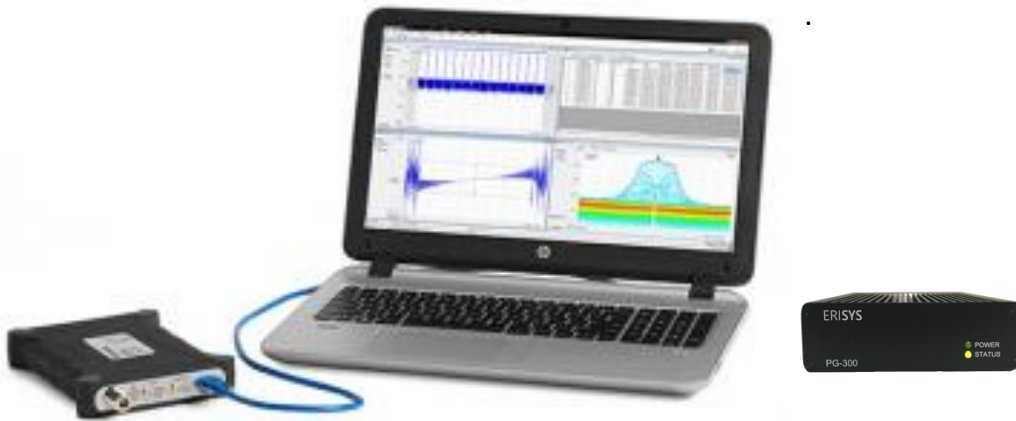
Applications

- Virtually unlimited Arbitrary Waveform memory utilizing laptop SSDs
- Validate and Calibrate RF Equipment with Captured or Simulated Signals
- Create custom RF Scenarios for manufacturing and test applications
- Simulate interference and noise sources
- Create and transmit sophisticated RF signals using MatLab or SourceXpress
- Generate complex Radar and Comm Signals for use in anechoic chambers

An advanced ARB you can afford.

The PG-300 allows you to turn your USB RSA Spectrum Analyzer into a complete record and playback system. For very low cost, you can have a system capable of recording hours of long-duration I/Q data for archiving and analysis. In addition, captured data can be re-transmitted to the frequency at which it was recorded or moved to a completely different frequency.





Specifications

I/Q Baseband frequency range:	DC to 125 MHz
RF Carrier Frequency Range	400 – 4000 MHz
RF bandwidth:	250 MHz
Channels:	2
DAC resolution:	16-bit
Max sample rate:	1.25 GS/s
Selectable interpolation filter:	2x, 4x, 8x, 16x
Digital IQ correction:	Gain, Phase, Offset, and Group Delay
Dimensions	7.4" width by 7.8" length by 1.5" tall
Weight	5 pounds
Power	5 volts 10 Watts Fan-less

ERISYS, LLC

13800 Coppermine Rd

Herndon, VA 20171

sales@erisys.com

(703) 659-9412