

## RF Playback & Generation System

COTS Fully Integrated RF Playback and Generation System for the Streaming Playback of Captured or Synthesized Complex Waveforms for Comms, Radar and EW System Test & Evaluation

### AGILE WIDEBAND RF UPCONVERTER

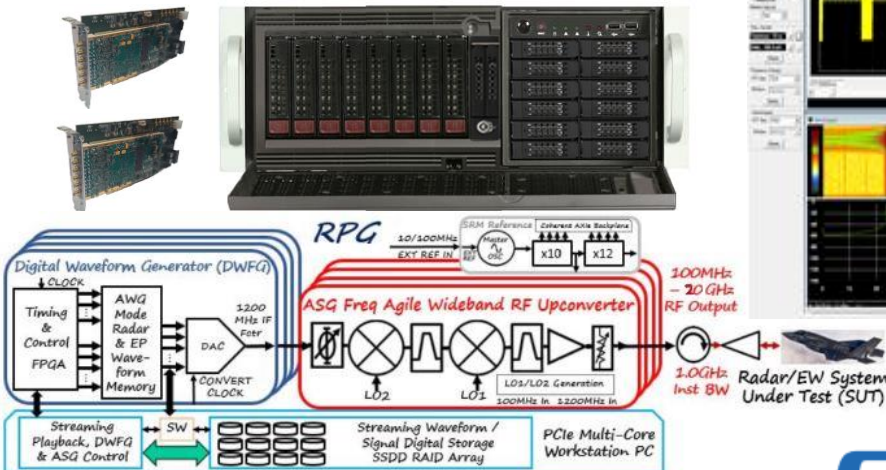
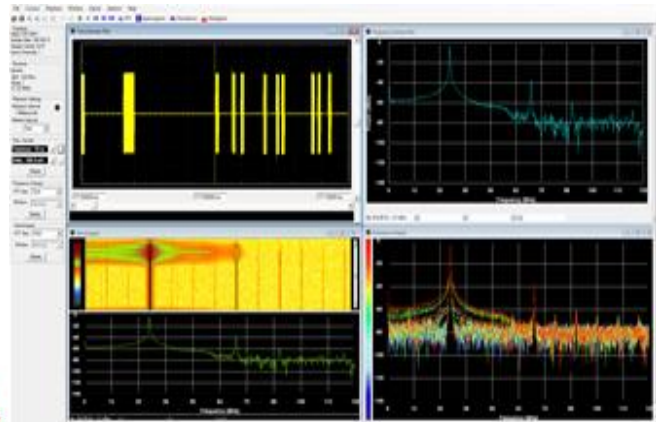
- IF-to-RF Upconverter w/ 100 MHz-20 GHz Operating Band
- Phase Coherent RF Outputs Across Multiple RF Channels
- Fast Switching < 1μSec (Freq/Phase/Amplitude settling)
- 1 GHz IF & RF Instantaneous Bandwidth
- 90dB RF Output Dynamic Range
- 1Hz Frequency and 0.1° Phase Resolution
- Superior Spectral Purity and Phase Noise



### REAL-TIME STREAMING DIGITIZED DATA PLAYBACK & SIGNAL GENERATION

- Dual-Channel 5GSps 16-Bit DAC with superior ENOB
- Streaming Digital-to-IF or Arbitrary Waveform Generator Modes for True Complex Waveform Generation direct up to 2GHz
- Multiple Parallel Phase Coherent and Time Synchronous Waveform Channels
- 24 to 192 TB Solid State Drive RAID Array
- Inline DSP for Real Time Analysis and Display of Signal Parameters in both Time and Frequency Domains
- Synthesized or Captured Signal Digital Playback Capability (user-selectable rates)

Fully Compatible with the Giga-tronics "CEDAR" RF Capture & Analysis System



### COTS and Custom Configurations Available

- Standard Item COTS configs for 1 to 4 Channels
- Custom configs for 5 to 16 Channels available – contact Us <https://www.gigatronics.com/>