



Side Channel Hardware RF Emissions Spectrum Monitoring/RF Security



PCIe, PXIe Digitizers

- 8 to 16 bits Resolution
- 1 to 8 Channels per Card
- 10 MS/s to 6 GS/s Sampling Speed



To profile and test how well a device can resist attacks that use its electromagnetic signals, or to check if there are unwanted transmissions of data or hacking attempts in an area, requires the capability to record the signals in real-time for long durations of time.

Renowned for sustaining the maximum effective number of bits (ENOB) over a wide signal frequency range, GaGe Digitizers allow for captured real-time streaming signal recordings to host based high-speed storage arrays, thus eliminating the bottleneck of traditional box-based oscilloscope and signal analyzers with limited recording capacity.

Turnkey System Solutions

- RF & IF Real-Time Analysis & Recording
- Analyze Frequencies 9 kHz - 40 GHz
- Record RF Bandwidths 10 MHz-1000 MHz
- Multi-Channel Recording Systems



Sig-Stations come with all GaGe instruments, features, and software fully tested and installed so that the user can be up and running with their system solution right out of the box, saving time and minimizing risks of self-integrated systems, with high-speed storage capacities up to 368 TB!

These custom systems are designed to maximize operational performance of GaGe instruments with available desktop, laptop, portable and rackmount form factors, and integrated high-speed storage tailored for real-time streaming recording applications that require guaranteed continuous sustained data streaming transfer rates with no missing data.

System Software

- SpectraScopeRT SpectraViewRT
- Real-Time RF Recording Control
- Playback Viewing with Data Export
- Windows User Interface for All Applications



RF & IF signal recording applications that require no programming and allows for integrated operational control of both downconverter receivers and digitizers for signal capture, analysis, and real-time streaming signal recordings with live monitoring capability.

All GaGe digitizers include a complete library of software development kits (SDKs) for C/C#, Python, LabVIEW, and MATLAB featuring several programming examples with source code illustrating the use of digitizer hardware in different operating modes to serve as a starting point for users to develop customized applications optimized for their specific requirements.

