FPGA Signal Averaging for Gage Digitizers

Order-No.: 250-181-001   Series/Model: eXpert / Signal Averaging

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Main Product Features

- **Waveforms may be Signal Averaged at a Rate of Greater than 100,000 Waveforms per Second**
- **Maximum Waveform Lengths are 24,000 Samples on 2 Channels or 48,000 Samples on 1 Channel**
- **Signal Averaging is Performed by GaGe Digitizer Hardware, Allowing the Host-PC to Handle Other Tasks in Parallel**
- **Onboard Intelligent Processing Reduces PCI Data Traffic by a factor of More than 1000**
- **Effective Data Processing Rate of 800 MB/s**
- **Transparent to GaGe's Standard CompuScope Digitizer Drivers for Windows, so that no Special Software is Required**
- **Compatible with CompuScope Digitizer Software Development Kits (SDKs) for C/C#, LabVIEW, & MATLAB**

The onboard Signal Averaging eXpert FPGA DSP feature is a powerful tool that allows users to detect a small repetitive signal in a noisy environment.

This signal averaging capability takes advantage of onboard FPGA DSP technology to allow for rapid signal averaging with absolutely no CPU loading. Using signal averaging, small signals can be extracted from a background of high amplitude noise, which may even be larger than the actual signal itself

Applications

- Ultraschall Tests
- Lidar Systeme
- Fiber-Optik Tests

- Radar Tests
- Stimulations- und Antworts-Tests
- Netzwerk-Analysen

Manufacturer page

http://www.gage-applied.com/

Data Sheet Download

FPGA Signal eXpert DSP Averaging Option for Gage Digitizers (218.3 KiB)

Opening the Download-Files May require the Adobe-Acrobat-Reader.
Click here to download the Adobe-Acrobat-Reader.

If you have questions please don't hesitate to contact us any time.

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