

FPGA FFT (Fast Fourier Transformation)

Artikelnummer: 250-181-003 Series/Model: eXpert / Fast Fourier Transformation



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FPGA EchtzeitFPGA FFT (Fast Fourier Transformation) für Gage Digitizer / Oszilloskope

Hauptproduktmerkmale

- **Performs 512, 1024 or 2048 point FFTs on time-domain waveforms acquired by CompuScope hardware**
- **Removes FFT calculation load from host PC**
- **Downloads multiple FFT spectra in a single PCI transfer**
- **Real and Imaginary FFT amplitude components are separately available**
- **Standard and customized time-domain Windowing included**
- **Dedicated FFT Sample Program included in CompuScope Software Development Kits (SDKs) for C/C#, LabVIEW and MATLAB**

Fourier Transform Analysis is Advanced On-board FPGA Technology a powerful signal-processing technique used in a wide variety of applications. GaGe's eXpert FFT firmware allows CompuScope hardware to perform Fourier Analysis within its on-board processing FPGA.

Transfer multiple Fourier Spectra in a single PCI transfer without burdening your host PC!

Typically, Fourier transformation of time-domain waveforms requires the execution of the computationally-intensive Fast Fourier Transform (FFT) algorithm on a host PC. Gage's eXpert FFT firmware now removes this computational load from the host PC and performs the FFT calculations on waveforms acquired by CompuScope hardware during PCI transfer.

Anwendungsbeispiele

- Ultraschall Tests
- Lidar Systeme
- Partikel Zählung
- Fiber-Optik Tests
- Radar Tests
- Blitzeinschlag Tests
- Netzwerk-Analysen

Herstellerseite

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

Datenblatt-Download



[Echtzeit FFT FPGA Option für Gage Digitizer Oszilloskope \(218,3 KiB\)](#)



Für das Betrachten der Download-Dateien benötigen Sie i. R. den Adobe-Acrobat-Reader.
[Sie können diesen hier herunterladen.](#)

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