

FPGA Fast Fourier Transformation (FFT)

Order-No.: 250-181-003 Series/Model: eXpert / Fast Fourier Transformation



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Hauptproduktmerale

- **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

Manufacturer page

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

Data Sheet Download



[eXpert FPGA DSP FFT for GaGe Digitizers \(389.6 KiB\)](#)



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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