

Overview about eXpert realtime FPGA options

eXpert FPGA DSP realtime FPGA options for Gage Digitizers

PCIe Data Streaming



Allows for data streaming mode of acquired data directly through the PCIe interface to the host PC RAM and on to targeted host based CPU or dedicated processing cards for analysis and/or to high-speed storage systems for real-time signal recordings.

Supported PCIe Digitizer:

[Cobra Express](#)

[CobraMax](#)

[EON Express](#)

[Octave](#)

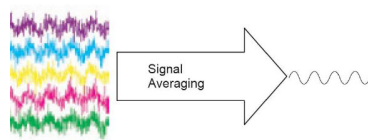
[Octopus Express](#)

[Oscar](#)

[RazorExpress](#)

[RazorMax](#)

Signal Averaging



Allows for detection of very small repetitive signals in a noisy environment. Using rapid signal averaging, small signals can be extracted from a background of high amplitude noise, which may even be larger than the actual signal itself.

Supported PCIe Digitizer:

[Cobra Express](#)

[CobraMax](#)

[EON Express](#)

[Octave](#)

[Octopus Express](#)

[Oscar](#)

[RazorExpress](#)

[RazorMax](#)

Ultrasonic NDT Position Encoder



Allows for direct position encoder reading capability for fastest possible scan rates with Pulse On Position Mode and Position Stamping Mode for use with modern ultrasonic non-destructive testing (NDT) inspection systems.

Supported PCIe Digitizer:

[Cobra Express](#)



[PCIe Datenstreaming](#)



[PCIe Signal-Mittelwertbildung](#)



[PCIe Ultraschall NDT Positions Encoder](#)

Optical Coherence Tomography (OCT)

Fast Fourier Transform (FFT)



Supports variable rate k-clocking or inactive external clock by simultaneously digitizing the interferometer signal with the returned optical signal for use with OCT applications.

Allows 512, 1024, or 2048 point FFT calculation analysis directly on the digitizer and transfer of multiple Fourier Spectra to the host PC in a single PCIe transfer.

Supported PCIe Digitizer:

Supported PCIe Digitizer:

[EON Express](#)

[EON Express](#)

[RazorMax](#)

[Octave](#)

[Octopus Express](#)

[RazorMax](#)



[PCIe Optical-Coherence-Tomography](#)



[PCIe Fast Fourier Transformation](#)

Manufacturer page

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



Opening the Download-Files May require the Adobe-Acrobat-Reader.
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If you have questions please don't hesitate to contact us any time.

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