

Overview about Ultra Fast PCI Express Digitizer Oscilloscopes

Overview of Ultra Fast 2 and 4-channel Gage digitizers with resolutions of 8 bits 12Bit, 16Bit and sampling rates of 500 MS/s, 1 GS/s, 3 GS/s and 6 GS/s.

Possible transfer speeds in the PCIe slots:

PCI Express (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-2 (Version 2.0): 3.1 GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-1 (Version 1.0): 1.5 GB/s

PCI Express (PCIe) x4 (4 Lane) Gen-1 (Version 1.0): 1 GB/s

PCI Express (PCIe) x1 (1 Lane) Gen-1 (Version 1.0) 245 MS/s

Possible transfer speeds with Thunderbolt-3 Expansion:

[Gage Thunderbolt-3 version](#): (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

[OneStop Systems / Magma Expansion](#): PCIe x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

Possible [eXpert On-Board Real-Time Application Options](#) (model-dependent):

- eXpert™ Daten Streaming Stream-to-Analysis
- eXpert DDC (Digital Down Conversion)
- eXpert™ Mittelwertbildung eXpert™
- eXpert FFT (Fast Fourier Transform)
- eXpert OCT (Optical Coherence Tomography)

Possible [Software Development Kits \(SDK's\)](#).

- CompuScope SDK für C/C# (WINDOWS 7/8/10 32Bit/64Bit und Linux)
- CompuScope SDK für MATLAB (WINDOWS 7/8/10 32 Bit/64Bit)

- CompuScope SDK für LabVIEW (WINDOWS 8/10 32Bit/64Bit)

[GageScope \(Oscilloscope-Software\)](#)

- GageScope: Lite Version
- GageScope: Standard Version
- GageScope: Professional Version

Combination possibilities with broadband Downconverter:

- [Broadband Downconverter solution from 100 kHz to 8 GHz](#)
- [Downconverter solution from 100 to 18 GHz](#)
- [Downconverter solution from 100 kHz to 8 GHz 100 kHz to 27 GHz](#)

Applications:

- RADAR Design and Test
- Signals Intelligence (SIGINT)
- Ultrasonic Non-Destructive Testing
- LIDAR Systems
- Communications
- Optical Coherence Tomography
- Spectroscopy
- High-Performance Imaging
- Time of Flight
- Life Sciences
- Particle Physics

16 Bit Digitizer PCIe Gen-3 Oszilloscope, 2 channels 1GS/s 4GS Speicher

Order-No.: RMX-161-020 Series/Model: RazorMax / CompuScope Express 161G2



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Main Product Features

- **2 channel Digitizing Input Channels**
- **1 GS/s Maximum Sampling Rate per Channel**
- **700 MHz Bandwidth**
- **16-Bit Vertical A/D Resolution**
- **4 GS (8 GB) Onboard Memory Standard**
- **FPGA Based Applications for Real-Time DSP Functions**
- **Dual Port Memory w.Sustained PCIe**
- **Data Streaming with more then 4 GB/s**
- **Full-Featured Front-End w. DC or AC Coupling a. 50 Ω Inputs**
- **Software Control of Input Voltage Ranges**
- **Ease of Integration with External or Reference Clock In & Clock Out**
- **External Trigger In & Trigger Out**
- **Full-Height 1/2 Length PCI Express (PCIe) Generation 3.0 x8 Card**
- **Programming-Free Operation with GaGeScope PC Oscilloscope Software**
- **Software Development Kits Available for C/C#, LabVIEW and MATLAB**

The new extremely fast and high-resolution Gage digitizers of the series RazorMax Express CompuScope offer with a half long Single slot PCI Express card a resolution of 16 bit and a sampling rate of 1 GS/s (per channel).

Sampling rates: The 2 or 4 channel 16 bit RazorMax PCI Express (Gen-3) PC oscilloscope cards are available in 2 versions:

The PCI Express x8 Gen-3 Series CSE161Gx oscilloscope cards has a sampling rate of 1 GS / s per channel

The PCI Express x8 Gen-3 Series CSE1650x Series oscilloscope has a sampling rate of 500 MS / s per channel.

Possible transfer speeds in the PCIe slots:

PCI Express (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-2 (Version 2.0): 3.1 GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-1 (Version 1.0): 1.5 GB/s

PCI Express (PCIe) x4 (4 Lane) Gen-1 (Version 1.0): 1 GB/s

PCI Express (PCIe) x1 (1 Lane) Gen-1 (Version 1.0) 245 MS/s

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- Particle Physics

Manufacturer page

<https://vitrek.com/gage/>

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[2 or 4 channel HighSpeed 16 Bit Digitizer with 500 MS/s or 1 GS/s per channel \(3.4 MiB\)](#)



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

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**16 Bit Digitizer (oszilloscope) PCIe Gen-3 2 channels 500 MS/s
4GS memory**

Order-No.: RMX-165-020 Series/Model: RazorMax / CompuScope Express 16502



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Main Product Features

- **2 channel Digitizing Input Channels**
- **500 MS/s Maximum Sampling Rate per Channel**
- **350 MHz Bandwidth**
- **16-Bit Vertical A/D Resolution**
- **4 GS (8 GB) Onboard Memory Standard**
- **FPGA Based Applications for Real-Time DSP Functions**
- **Dual Port Memory w.Sustained PCIe**
- **Data Streaming with more then 4 GB/s**
- **Full-Featured Front-End w. DC or AC Coupling a. 50 Ω Inputs**
- **Software Control of Input Voltage Ranges**
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Sampling rates: The 2 or 4 channel 16 bit RazorMax PCI Express (Gen-3) PC oscilloscope cards are available in 2 versions:

The PCI Express x8 Gen-3 CSE161Gx digitizer /oscilloscope cards series has a sampling rate of 1 GS / s per channel

The PCI Express x8 Gen-3 CSE1650x digitizer /oscilloscope series has a sampling rate of 500 MS / s per channel.

Possible transfer speeds in the PCIe slots:

PCI Express (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

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[16 Bit Digitizer, 2 or 4 channels HighSpeed with 500 MS/s or 1 GS/s per channel \(3.4 MiB\)](#)



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12 Bit, 6 GS/s PCI Express Gen-3 Digitizer bis zu 8 GB Speicher

Order-No: ENE-126-G10 Series/Model: EON Express / CompuScope

126G1



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12 Bit, 1 x 6 GS/s PCIe Gen-3 Digitizer / Oszilloskop b. 8GB Speicher

Main Product Features

- **6 GS/s max. Sampling Rate**
- **1.75 GHz Analog Input Bandwidth**
- **12-Bits Vertical A/D Resolution**
- 4 GB or 8 GB Onboard Acquisition Sample Memory
- FPGA Based Applications for Real-Time DSP Functions
- **Dual Port Memory with Sustained PCIe (Gen-3) Data Streaming at 4 GB/s**
- Full-Featured Front-End with DC or AC Coupling and 50 Ω Inputs
- Software Control of Input Voltage Ranges
- Ease of Integration with External or Reference Clock In & Clock Out
- External Trigger In & Trigger Out
- Larger Synchronized Multi-Channel Systems in Master/Slave Mode
- Full Height $\frac{3}{4}$ Length PCI Express (PCIe) Generation 3.0 x8 Card
- Programming-Free Operation with GaGeScope PC Oscilloscope Software
- Software Development Kits Available for C/C#, LabVIEW and MATLAB
- Windows 8, Windows 7, and Linux Operating Systems Supported

The new ultra high-speed, high-resolution Gage digitizers series EON Express CompuScope offer sampling rates of up to 6 GS/s on a single slot PCI Express card and are available with various on-board memory depths from 2 GS to 8 GS

Possible transfer speeds in the PCIe slots:

PCI Express (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-2 (Version 2.0): 3.1 GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-1 (Version 1.0): 1.5 GB/s

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- Communications
- Optical Coherence Tomography
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- Time of Flight
- Life Sciences
- Particle Physics

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 [12 Bit PCIe Gen-3 Highspeed Digitizer with 6 GS/s Sampling rate \(2.4 MiB\)](#)



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12 Bit, 2 Channels 3 GS/s PCI Express Gen-3 Digitizer up to 8 GB Memory

Order-No: ENE-123-G20 Series/Model: EON Express / CompuScope 123G2



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12 Bit, 2 x 3 GS/s PCIe Gen-3 Digitizer / Oszilloscope b. 8GB Speicher

Main Product Features

- **2 x 3 GS/s max. Sampling Rate**
- 1.75 GHz Analog Input Bandwidth
- **12-Bits Vertical A/D Resolution**
- 4 GB or 8 GB Onboard Acquisition Sample Memory
- FPGA Based Applications for Real-Time DSP Functions
- **Dual Port Memory with Sustained PCIe (Gen-3) Data Streaming at 4 GB/s**
- Full-Featured Front-End with DC or AC Coupling and 50 Ω Inputs
- Software Control of Input Voltage Ranges
- Ease of Integration with External or Reference Clock In & Clock Out
- External Trigger In & Trigger Out
- Larger Synchronized Multi-Channel Systems in Master/Slave Mode
- Full Height $\frac{3}{4}$ Length PCI Express (PCIe) Generation 3.0 x8 Card
- Programming-Free Operation with GaGeScope PC Oscilloscope Software
- Software Development Kits Available for C/C#, LabVIEW and MATLAB
- Windows 8, Windows 7, and Linux Operating Systems Supported

The new ultra high-speed, high-resolution Gage digitizers series EON Express CompuScope offers sampling of 3 GS/s at two channels on a single slot PCI Express card and are available with various on-board memory depths from 2 GS to 8 GS

Possible transfer speeds in the PCIe slots:

PCI Express (PCIe) x8 (8 Lane) Gen-3 (Version 3.0): 4+ GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-2 (Version 2.0): 3.1 GB/s

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PCI Express (PCIe) x1 (1 Lane) Gen-1 (Version 1.0) 245 MS/s

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**Ultra Fast 8-bit Digitizer, 1x4 GS/s or 2x2 GS/s Sampling Rate
up to 16GS Memory**

Order-No.: CXE-024-000 Series/Model: CompuScope Express 24G8



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8 Bit, 4 GS/s Ultra HighSpeed Digitizer with up to 16 GS Memory

Main Product Features

- **1 and 2 channel Digitizer (Software selectable)**
- **1 x 4 GS/s oder 2 x 2 GS/s Sampling Rate**
- **8 bits vertical resolution**
- **16 GS on-board acquisition memory**
- **1.5 GHz bandwidth**
- **Full-size, PCI Express 2.0 x8 card**
- **Full-featured front-end, with software selection of all signal conditioning settings**
- **Ease of integration with External or Reference Clock In and Clock Out, External Trigger In and Trigger Event Out**
- **Programming-free operation with GageScope® oscilloscope software**
- **Software Development Kits available for LabVIEW, MATLAB, C/C# and more**
- **Dual-port memory and data streaming at up to 3.1 GB/s**
- **Custom FPGA firmware available**

The CobraMax CompuScope family of GaGe ultra high-speed 8-bit digitizers provides the most powerful combination of speed, memory, and bandwidth as well as a wide portfolio of advanced acquisition features on a single PCI Express or PCI card.

Reatime eXpert On-Board Options:

- eXpert™ Real Time Data Streaming
- eXpert™ Signal Averaging

Applications:

- Time-of-flight (TOF) Messungen
- Wideband Signal Analysis
- RADAR Design and Test
- Signals Intelligence (SIGINT)
- Ultrasonic Non-Destructive Testing
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 [Ultra Highspeed 8 Bit PCI Express Digitizer with 4 GS/s Sampling Rate \(304.8 KiB\)](#)



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Ultra Fast Digitizer with 8 Bit, 4 GS/s Sampling Rate with up to 8 GS Memory

Order-No.: CXE-014-000 Series/Model: CompuScope Express 14G8



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8 Bit, 4 GS/s Ultra HighSpeed Digitizer with up to 8 GS Memory

Main Product Features

- 1 digitizing channel with 4 GS/s maximum sampling rate
- 8 bits vertical resolution
- up to 8 GS on-board acquisition memory
- 1.5 GHz bandwidth
- Full-size, PCI Express 2.0 x8 card
- Full-featured front-end, with software selection of all signal conditioning settings
- Ease of integration with External or Reference Clock In and Clock Out, External Trigger In and Trigger Event Out Programming-free operation with GageScope® oscilloscope software
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Fast 8 Bit PCIe Gen-2 Digitizer with 1x2 GS/s, 2x1 GS/s, 16GS Memory

Order-No. CBE-022-000 Series/Model: Cobra Express 22G8



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8 Bit PCI Express Gen-2 Digitizer with 1 x 2 GS/s or 2 x 1 GS/s and up to 8 GS Memory

Main Product Features

- 1 or 2 digitizing channels
- 1 or 2 GS/s maximum sampling rate per channel
- 8 bits vertical resolution
- up to 8 GS on-board acquisition memory
- Up to 1 GHz bandwidth
- PCI Express 2.0 x8 card
- Full-featured front-end, with software selection of all signal conditioning settings
- Ease of integration with External or Reference Clock In and Clock Out, External Trigger In and Trigger Event Out Programming-free operation with GageScope® oscilloscope software
- Software Development Kits available for LabVIEW, MATLAB, C/C# and more
- Dual-port memory and data streaming at up to 3.1 GB/s on PCI Express models
- Custom FPGA firmware available

The Cobra CompuScope family of high-speed 8-bit digitizers provide a powerful combination of speed, memory, and bandwidth as well as a wide portfolio of advanced acquisition features on a single PCI Express or PCI card.

Possible transfer speeds in the PCIe:

PCI Express (PCIe) x8 (8 Lane) Gen-2 (Version 2.0): 3.1 GB/s

PCI Express (PCIe) x8 (8 Lane) Gen-1 (Version 1.0): 1.5 GB/s

PCI Express (PCIe) x4 (4 Lane) Gen-1 (Version 1.0): 1 GB/s

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 [Digitizer with 1 x 2 GS/s or 2 x 1 GS/s \(587.1 KiB\)](#)



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Fast 8 Bit PCIe Gen-2 Digitizer with 1x1 GS/s, 2x500 MS/s, 16GS Memory

Order-No. CBE-021-000 Series/Model: Cobra Express 21G8



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8 Bit PCI Express Gen-2 Digitizer with 1 x 2 GS/s or 2 x 1 GS/s and up to 16 GS Memory

Main Product Features

- **1 or 2 digitizing channels**
- **1 or 2 GS/s maximum sampling rate per channel**
- **8 bits vertical resolution**
- **up to 8 GS on-board acquisition memory**
- **Up to 1 GHz bandwidth**
- **PCI Express 2.0 x8 card**
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eXpert™ Real Time Data Streaming

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 [Digitizer with 1 x 2 GS/s or 2 x 1 GS/s \(587.1 KiB\)](#)



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

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