

12 Bit PCIe Gen-2 Digitizer 2 Channels 200 MS/s up to 8 GS Memory

Order-No.: RAZ-002-300 Series/Model: Razor-14 / CompuScope 1422



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2 Channel 14-Bit PCIe (x8 Gen-2) Digitizer / Oszilloscope with 200 MS/s Sampling Rate per Channel

Main Product Features

- **2 or 4 Digitizing Input Channels**
- **200 MS/s Maximum Sampling Rate per Channel**
- **125 MHz Analog Input Bandwidth**
- **12-Bit Vertical A/D Resolution**
- **4 GS (8 GB) Onboard Memory Standard, Expandable up to 8 GS (16 GB)**
- **Dual Port Memory with Sustained PCIe Data Streaming at 1.6 GB/s**
- **Full-Featured Front-End with AC/DC Coupling and 50 Ω /1M Ω Inputs**
- **Software Control of Input Voltage Ranges, Coupling and Impedances**
- **Ease of Integration with External or Reference Clock In & Clock Out**
- **External Trigger In & Trigger Out**
- **Synchronized Multi-Card Systems up to 8 Cards for 32 Channels**
- **Full-Height Full-Length PCI Express (PCIe) Generation 2.0 x8 Card**
- **Programming-Free Operation with GaGeScope PC Oscilloscope Software**
- **Software Development Kits Available for C/C#, LabVIEW and MATLAB**
- **Windows 10/8/7 and Linux Operating Systems Supported**

The GaGe Razor 12X2 Express CompuScope PCIe digitizer board features 12-bit resolution with sampling rates up to 200 MS/s with true Effective Number of Bits (ENOB) of 9.6-bits with 10 MHz input.

Onboard digitizer sample memory is expandable up to 8 GS (16 GB) and up to 8 Razor Express digitizers

can be combined for up to 32 channels in a single system.

Possible transfer speeds in the PCIe slots:

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

eXpert Realtime On-Board Options:

- eXpert™ Daten Streaming Stream-to-Analysis
- eXpert™ Mittelwertbildung eXpert™

Applications

- Radar Design and Test
- Disk Drive Testing
- Manufacturing Test
- Signal Intelligence
- Lidar Systems
- Communications
- Non-Destructive Testing
- Spectroscopy
- High-Performance Imaging
- Ultrasound Test

Manufacturer page

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

Data Sheet Download



[PCI Express Gen-2 RazorExpress board 2-and 4 Channels 14 Bit 200 MS/s \(660.0 KiB\)](#)



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