

16-Bit PCIe Gen-2 Digitizer / Oszilloscope 4 Channel 25 MS/s up to 8 GS Memory

Order-No.: OVE-844-002 Series/Model: Octave-16 Express / CompuScope 8442



[_ Bitte klicken zum Vergrößern](#)

2 Channe 16-Bit PCIe (x8 Gen-2) Digitizer / Oszilloscope with 25 MS/s Abtastrate pro Kanal

Main Product Features

- **4 Digitizing Input Channels**
- **25 Sampling Rate per Channel**
- **20 MHz Analog Input Bandwidth**
- **16-Bit Vertical A/D Resolution**
- **2 GS (4 GB) Onboard Memory Standard, Expandable up to 8 GS (16 GB)**
- **Dual Port Memory with Sustained PCIe Data Streaming at 1.0 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**
- **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 Octave Express 84XX CompuScope PCIe digitizer card features 16-bit resolution with sampling rates up to 25 MS/s with true Effective Number of Bits (ENOB) of 12-bits with 10 MHz input.

Onboard digitizer sample memory is expandable up to 8 GS (16 GB) and up to 8 Octave 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 DDC (Digital Down Conversion)
- eXpert™ Mittelwertbildung eXpert™
- eXpert FFT (Fast Fourier Transform)
- eXpert OCT (Optical Coherence Tomography)

Applications

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

Manufacturer page

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

Data Sheet Download



[4-Channel 16 Bit Digitizer Board 4 x 25 MS/s for PCI Express Gen-2 \(731.6 KiB\)](#)



Für das Betrachten der Download-Dateien benötigen Sie i. R. den Adobe-Acrobat-Reader.
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