

16 Bit Digitizer for PCIe Gen-2 with 8 channels 25 MS/s and up to 8 GS Memory

Order-No.: OCE-848-002 Series/Model: Octopus-16 Express / CompuScope Express 8484



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8 Channel 14-Bit PCIe (x8 Gen-2) Digitizer / Oscilloscope with 25 MS/s Samplingrate per Channel

Main Product Features

- **8 Digitizing Channels**
- **25 MS/s Maximum Sampling Rate per Channel**
- **16-bit Vertical A/D Resolution**
- **2 GS (4 GB) to 8 GS (16 GB) Onboard Acquisition Sample Memory**
- **20 MHz Input Bandwidth**
- **Full-Featured Front-End with AC/DC Coupling and 50Ω or 1MΩ Inputs**
- **Software Control over Input Ranges, Coupling & Impedances**
- **Ease of Integration with External or Reference Clock In & Clock Out**
- **External Trigger In & Trigger Out**
- **Full-Size Single-Slot 8-Lane (x8) PCIe 2.0 Board**
- **Sustained PCIe Data Streaming at 1 GB/s**

The GaGe Octopus Express 84XX CompuScope PCIe digitizer board 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 Octopus Express digitizers can be combined for up to 64 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
- 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



[16-Bit PCIe Digitizer with 8 Channel and 25 MS/s Sampling Rate \(1.5 MiB\)](#)



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