14 Bit Digitizer for PCIe with 8 Channels 65 MS/s up to 8 GS Memory

Order-No. OCE-838-005 Series/Model: Octopus-14 Express / CompuScope Express 8385



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14 Bit PCI Express Digitizer / Oszilloskopkarten mit 65 MS/s Abtastrate pro Kanal und 2 GS bis 8 GS Speicher

Hauptproduktmerkmale

- 8 Digitizing Channels
- 65 MS/s Maximum Sampling Rate per Channel
- 14-bit Vertical A/D Resolution
- 2 GS (4 GB) to 8 GS (16 GB) Onboard Acquisition Sample Memory
- 100 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 2 GB/s

The GaGe Octopus Express 83XX CompuScope PCIe digitizer board features 14-bit resolution with sampling rates up to 125 MS/s with true Effective Number of Bits (ENOB) of 11-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:

- eXpertTM Daten Streaming Stream-to-Analysis
- eXpert DDC (Digital Down Conversion
- eXpertTM MittelwertbildungeXpertTM
- 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

14-Bit Digitizer for PCIe x8 Gen2 with 8 Channels and 65 MS/s per Channel (1.5 MiB)

Opening the Download-Files May require the Adobe-Acrobat-Reader.
Click here to download the Adobe-Acrobat-Reader.

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

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