

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
- 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

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

eXpert Realtime On-Board Options:

eXpert™ Real Time Data Streaming
eXpert™ Signal Averaging

Application:

- Time-of-flight (TOF) Messungen
- Wideband Signal Analysis
- 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

Manufacturer page

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

Data Sheet Download



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



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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