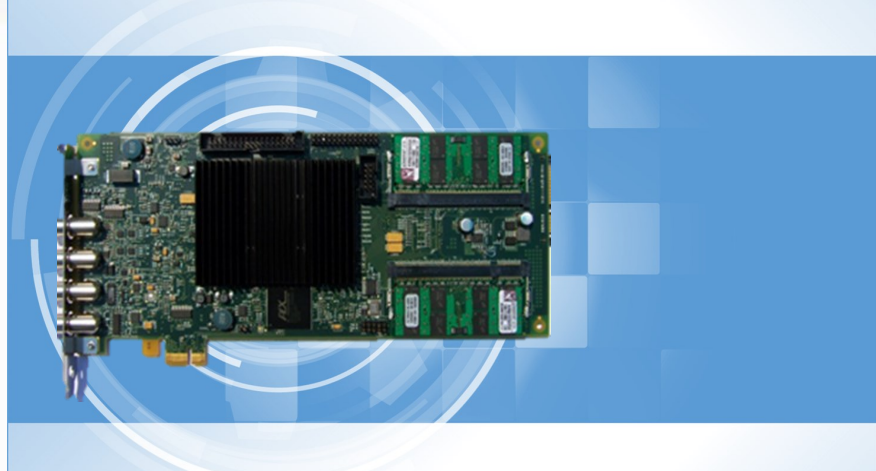


## A/D

- 1.6 GB/s PCI Express (8-lane interface)
- 2 channels sampled at 8-bit resolution
- 1GS/s simultaneous real-time sampling rate on each input
- Continuous Streaming Mode
- 125mV to 2V input range
- ALNet oscilloscope software
- Software Development Kit supports C/C++, C#, VB, and LabVIEW



**AL8xGTe-1** is a single-channel, high resolution, 8 bit 1 GS/s PCI Express Digitizer board supporting the PCI Express x1 bus. Onboard memory options range from 512M samples to 4Gsamples Memory operation allows acquisition to continue while data is being transferred to the PC.

The **AL8xGTe-1** KIT Includes a sample application that allows users to immediately begin data acquisition. Integration of the **AL8xGTe-1** into customer specific software is simplified by a Windows based software development kit that is included at no additional charge. The SDK includes support of C# or C/C++ and VB, LabVIEW™ for Windows.

The **AL8xGTe-1** digitizer utilizes 8-bit ADC to digitize the input signals. The sampling rate ranges from 1GS/s to 250KS/s. The acquisition is capable of being triggered by software, BNC, Quadrature encoder input, or internal TTL connection. Acquisition can consist of multiple data records; each record is the result of a trigger event. Records can have both pre-trigger and post-trigger data.

**Acquisition system is capable of being re-armed by the hardware within 1uS of the previous trigger.**

- 1 channels 1.0 GS/s real-time sampling rate on a single input sampled at 8-bit resolution
- 125mV to 2V input range
- Up to 2 Billion samples of on-board acquisition memory
- Dual Ported Memory Architecture for simultaneous collection and processing/download.
- Trigger Input/Output Connector

**OKOS Solutions LLC**  
7036 Tech Circle  
Manassas, VA 20109

Tel. +1 703 880 3039  
Fax. +1 240 235 7277

www.okos.com  
info@okos.com

**OKOS Solutions LLC**  
 7036 Tech Circle  
 Manassas, VA 20109

Tel. +1 703 880 3039  
 Fax. +1 240 235 7277

www.okos.com  
 info@okos.com

## Acquisition System

Resolution	8 bits
Bandwidth	
DC-coupled, 50Ω	DC - 1000 MHz
Number of channels	1
Maximum Sample Rate	1.0 GS/s single shot 1 channel
Minimum Sample Rate	250 KS/s single shot for internal clocking
Full Scale Input ranges	50 Ω input impedance-125mV, 250mV, 500mV, 1V, 2V software selectable
DC accuracy	±5% of full scale in all input ranges
Input coupling	DC
Input impedance	50Ω
Input protection	50Ω ±5V

## IO Connectors

BNC CH A	
BNC CH B (Not used)	
TRIG IN/TRIG OUT	
Clock	
BNC female connectors	

## Time Base

Internal Clock	
External Reference Clock	

## Computer Requirements

Power Requirements	+5V 3.5 A + 3.3V 2.4 A +12V .01A - 12V .01A
Physical Dimensions	Single slot PCI Express card (4.25 inches x 9.375 inches) Weight 210g
Environmental	Operating temperature 0 to 55 o C Storage temperature -20 to 70 o C Relative humidity 5 to 95%, non-condensing