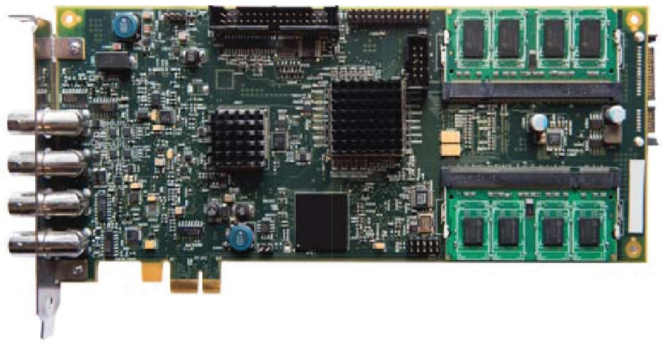
PVA TePla

OKOS

## A/D Board

# AL8xGTE-1.5

- PCI Express Bus Interface
- 8 bit Resolution · 125 mV to 2V input range ·
- Oscilloscope Software
- Configurable as 1 Channel @1 .5 GHz
- Software Development Kit C/C++, C# and VB



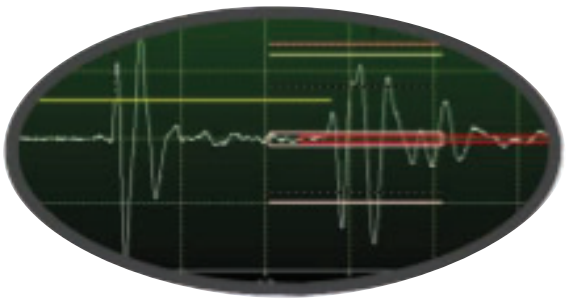
**AL8xGTE-1.5** is a single-channel, high resolution, 8 bit 1.5 GS/s PCI Express Digitizer board upporting the PCI Express x1 bus. Onboard memory options range from 512M samples to 2G samples Memory operation allows acquisition to continue while data is being transferred to the PC.

The **AL8xGTE-1.5** digitizer utilizes 8-bit ADC to digitize the input signals. The sampling rate ranges from 1.5GS/s to 250 KS/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.

The **AL8xGTE-1.5** KIT Includes a sample application that allows users to immediately begin data acquisition. Integration of the AL8xGTe-1.5 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 for Windows.

## About AL8xGTE-1.5

- Acquisition system is capable of being re-armed by hardware within 1uS of the previous trigger.
- ☑ Up to 2 Billion samples of on-board acquisition memory
- ☑ Dual Ported Memory Architecture for simultaneous collection and processing/download.
- ☑ Trigger Input/Output Connector
- ☑ Optional External Clock Connector
- ☑ Multiple Trigger Modes



## GET IN TOUCH

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## Acquisition System

| | |
|---|---|
| Resolution | 8 bits |
| Bandwidth | DC to 1000 MHz |
| Number of channels | 1 |
| Maximum Sample Rate | 1.5 GHz |
| Minimum Sample Rate | 250 GHz |
| Full Scale Input ranges | 125 mV, 250 mV, 500 mV, 1V, 2V software selectable |
| DC accuracy | ±5% of full scale in all input ranges |
| Input coupling | DC |
| Input impedance | 50 Ω |
| Input protection | 50 Ω +/- 5V |

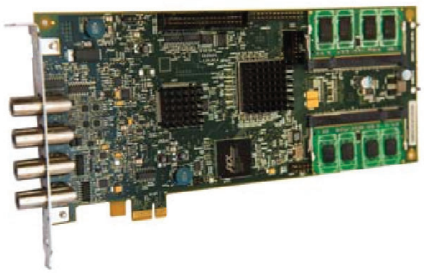
## IO Connectors

BNC: CH A

BNC: CH B (not used)

BNC: TRIG IN/TRIG OUT

BNC: Clock



## 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

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