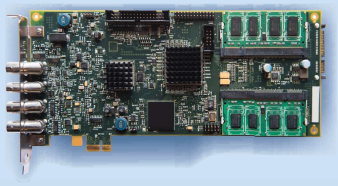
AL8xGTE-1.5

- PCI Express Bus Interface
- Configurable as 1 Channel @ 1.5 GHz
- 8 bit Resolution
- 125 mV to 2V input range
- Oscilloscope Software
- Software Development Kit supports C/C++, C#, VB and LabVIEW



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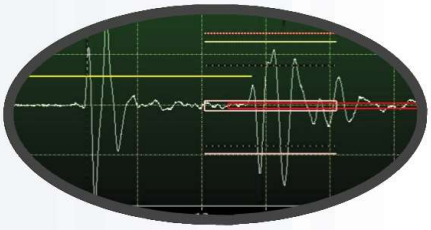
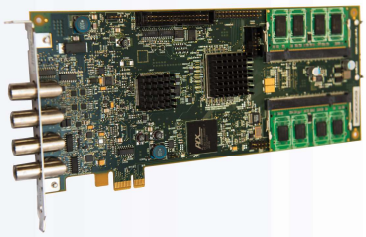
Acquisition system is capable of being re-armed by hardware within 1uS of the previous trigger.



♦ 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

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, LabVIEW™ for Windows.

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AL8xGTE-1.5

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

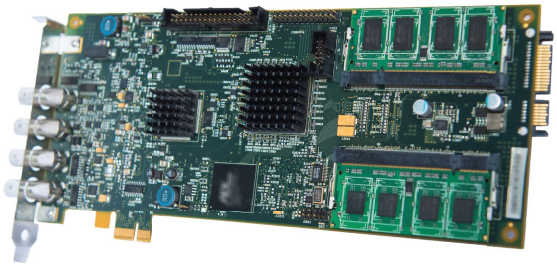
IO Connectors

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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