

# PCIe-X1075

PCIe-X1075 1GSPS, 12-bit, 4-Channel Modular Oscilloscope

## Product Introduction

The PCIe-X1075, developed independently by EverACQ, is a modular oscilloscope featuring a 1GSPS sampling rate, 12-bit resolution, and 4 channels. This product delivers exceptional signal capture and high-precision signal analysis capabilities. It utilizes standard interfaces and powerful processing functions, facilitating easy integration into existing systems and enabling users to quickly obtain the required data.



## Features

- High Speed and High resolution: 1GSPS, 12-bit
- Number of Channels: 4 channels
- Analog Bandwidth: DC-250MHz
- Coupled Modes: DC/AC coupling, 50Ω/1MΩ input impedance
- Adjustable Gain: Multiple gain levels can be switched online
- Easy Integration: Open FPGA, supports user-defined algorithms
- External Interface: 1 external trigger interface, 1 external clock interface
- Onboard Memory: 4GB DDR4 cache
- Operating Systems: Compatible with Windows and Linux systems

## Applications

- High-speed Signal
- Broad-band Signal
- Mass Spectrometry
- Nuclear And Partical Physics
- Lidar
- Echo Acquire
- Scientific Research
- National Defense

## Technical Specifications

Sampling Rate	1GSPS
ADC Resolution	12-bit
Number of Channels	4 channels
Connector	SMA
Analog Bandwidth	DC-250MHz
Coupled Mode	DC/AC coupling, adjustable via software
Input Impedance	50Ω/1MΩ, adjustable via software
Input signal Range	16Vpp/8Vpp/4Vpp/0.8Vpp/0.4Vpp/0.2Vpp, adjustable via software
ENOB	8.5-bit @ 10MHz
Working Mode	Trigger mode, streaming mode
Trigger Mode	Single trigger, normal trigger, auto trigger
Trigger Source	Channel self-trigger, forced trigger, external trigger
Trigger (TRIG)	1 external trigger interface, analog trigger, SMB connector
Clock (CLK)	1 external clock interface, 10MHz/100MHz square wave/sine wave, SMB connector
Clock Source	Onboard clock, external clock
Programmable Function Interface (PFI)	1 general-purpose bidirectional I/O interface, SMB connector
PCIe interface	PCIe Gen3×8
Onboard DDR Memory	4GB DDR4
Maximum Power Consumption	45W
Operating temperature	-20°C to +50°C
Storage Temperature	-30°C to +70°C
Board size	PCIe 3U/1 Slot, 20mm×111mm×160mm (W×D×H)
Supported OS	Windows 7 and above (32-bit/64-bit); Linux 64-bit

Note: Due to continuous technological advancements, the appearance or performance upgrades of the products listed in this brochure are subject to the actual product.

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