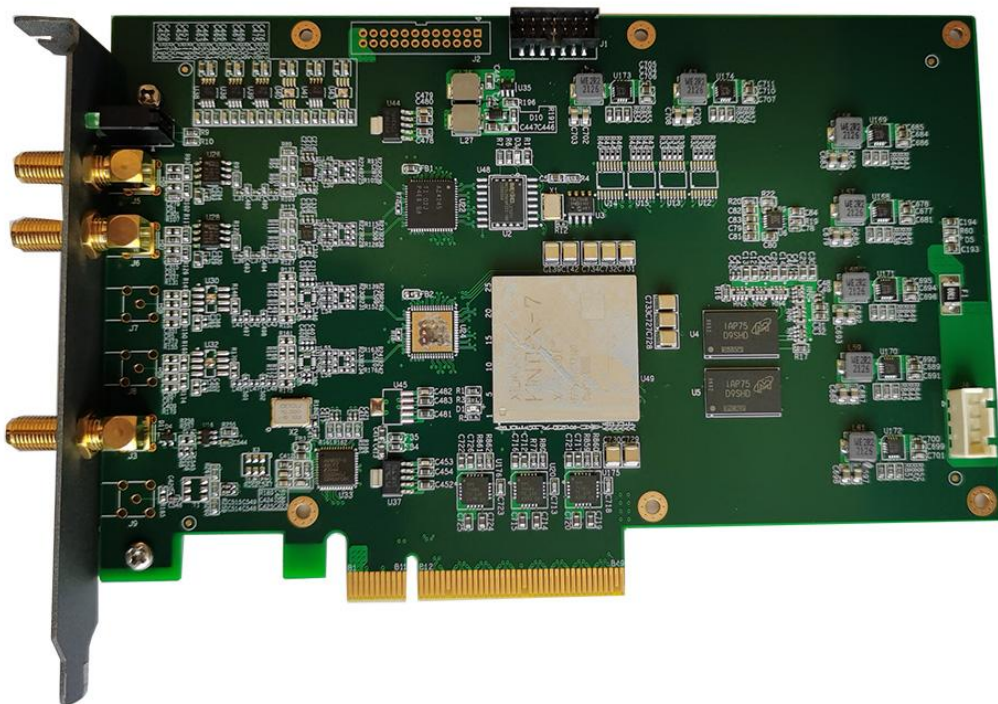


1GSps dual-channel high-speed data acquisition card

P/N:GY-DAS-1000-DAQ



❖ Specification

- 16bits dual-channel simultaneous real-time sampling
- 1GSps sampling rate
- DC coupling, 50 Ω input impedance
- 1.9Vpp input voltage range, 0-250MHz analog bandwidth
- Up to 89dBc SFDR
- Trigger output pulse, 16-channel digital IO
- PCI Express x8 Lane high-speed transfer interface
- 2GB DDR3 cache

❖ Overview

This is a PCIe x8 Lane, dual channel, 16bits respectively rate high speed data

acquisition card with 1GSps sampling rate. high performance FPGA chip on board with rich multiplier and RAM resources. The driver has good compatibility and supports multiple versions of WIN7, WIN8, WIN10 in 32/64bits.

❖ Specifications

Input Channel		
Number of input channels	2	
Input Impedance	50±1%	Ω
Input Signal Range	1.9V _{p-p}	
Input coupling method	DC (Customizable AC coupling)	
Resolution	16	bits
Bandwidth(-3dB)	0-250 (other bandwidths can be customized)	MHz
Spurious-free dynamic range (SFDR)	-1dBFS Input/1GSps	
f _{IN} =100MHz	86	dBc
f _{IN} =170MHz	88	dBc
Signal-to-noise ratio (SNR)	-1dBFS Input/1GSps	
f _{IN} =100MHz	70.6	dBFS
f _{IN} =170MHz	71.5	dBFS
Average noise density	-142	dBm/Hz
Internal reference clock		
Frequency	10	MHz
Stability	±0.5 (-20-60℃)	ppm
Trigger output		
High level minimum voltage	3 (50Ω load)	V
Pulse width resolution	4	nS
Minimum pulse width	4	nS
Digital input/output		
Number of channels	16	
Leveling standards	3.3V LVTTTL	
Output drive capability	8 (MAX)	mA
Signal Rate	50 (MAX)	Mbps
On-Board Cache		
	2	GB (DDR3L)

❖ Power supply and consumption

- Power supply voltage: 12V (gold finger power supply)
- Power consumption: 20W (Max)

❖ Temperature range

- Working temperature: -20~60°C
- Storage temperature: -40~85°C

❖ Mechanical dimensions

181mm(L) x 111mm(W)x20mm(D)

❖ System Block Diagrams

