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Data Sheet

August 15, 2026

ACQIRIS

Acqiris DP106 / U1091A-002 PCI Digitizer Card with Oscilloscope Characteristics

Acqiris Data Acquisition Systems (DAQ). Frequency Range: DC to 500 MHz, Resolution: 8-bit, Bandwidth: DC to 500 MHz.



MODEL

**Acqiris
DP106/U1091A-
002**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**DP106/U1091A-
002**

LISTING

[https://aumictechlabs.c
om/products/dp106-u10
91a-002-2/](https://aumictechlabs.com/products/dp106-u1091a-002-2/)

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Acqiris DP106 / U1091A-002 is a single-slot PCI digitizer card engineered for high-speed data acquisition with oscilloscope-grade signal fidelity. It delivers 8-bit resolution at sampling rates up to 2 GS/s across a DC to 500 MHz bandwidth, making it ideal for precision waveform capture in automated test systems, scientific instrumentation, and research environments. Technical Specifications Sampling Rate: Up to 2 GS/s Resolution: 8-bit Bandwidth: DC to 500 MHz Acquisition Memory: 256 kSample Clock Accuracy: ± 50 ppm DC Accuracy: $< \pm 2\%$ Input Impedance: Selectable 50 Ω and 1 M Ω Input Voltage Range: Programmable via front-end electronics Power Consumption: < 15 W Form Factor: Single Slot PCI Short Card Key Features Mezzanine front-end with input protection and internal calibration Complete pre- and post-triggering with user-selectable coupling Internal or external trigger sources with precision timing

adjustment Integrated Trigger Time Interpolator (TTI) providing 5 ps timing resolution Sequential recording with time stamps and < 800 ns dead time Programmable input ranges via full front-end amplification Optional cooling via Acqiris XP100 fan attachment Typical Applications Automated test systems Scientific instrumentation and research Biotechnology and semiconductor testing Aerospace and physics instrumentation Astronomy data acquisition Compatibility & Integration Device drivers support Windows, VxWorks, LabVIEW RT, and Linux environments. Application code examples provided for MATLAB, C/C++, Visual Basic, LabVIEW, and LabWindows/CVI. Graphical user interface and Soft Front Panel deliver scope-like waveform capture and display in time and frequency domains. PCI bus interface enables integration into existing system architectures.

DP106U1091A002 Characteristics / Specifications

PARAMETER	VALUE
Model	DP106
Instrument Type	PCI digitizer
Vertical Resolution	8 bits
Maximum Sample Rate	500 MS/s
Analog Bandwidth	250 MHz
Bandwidth Bw	200 MHz
Maximum Full Scale Listed	0.5 V
Rise Time Typical	1.4 ns
Channel Count	1
Standard Acquisition Memory	128 kpoints
Maximum Acquisition Memory	2 Mpoints
Segmented Acquisition Segments	up to 4000
Timing Resolution	80 ps
Clock Accuracy	50 ppm
Maximum Input Voltage	plus or minus 2 V
Minimum Sample Rate	100 S/s
Form Factor	PCI digitizer card
Keysight Order Alias	U1091A-002
Power Plus 5 V Typical	about 2.1 A
Power Plus 12 V Typical	about 16.1 W class listing
Module Mass Typical	0.55 kg
Series Family	Acqiris DP series 8 bit digitizers
Host Bus	32 bit PCI
Bandwidth	250 MHz
Rise Time	Typical: 1.4 ns

DP106U1091A002 Specifications

PARAMETER	VALUE
Acqiris Keysight DP106 PCI Digitizer	Overview
Key Features	500 MS/s maximum sampling
PCI plug in form factor	Keysight U1091A-002 catalog alias
Technical Specifications	Model: DP106
Notes	From Keysight Acqiris 8-bit Digitizers User Manual DP106/U1091A tables.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Host Bus	32 bit PCI
Notes	
From Keysight Acqiris 8-bit Digitizers User Manual DP106/U1091A tables.	

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.