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Data Sheet

August 15, 2026

ACQIRIS

Acqiris DC240 Modular Dual-Channel CompactPCI Digitizer with Oscilloscope Characteristics

Acqiris Keysight DC240 Dual Channel CompactPCI Digitizer The Acqiris DC240 is an 8-bit dual-channel CompactPCI digitizer with oscilloscope characteristics. OEM Keysight Acqiris 8-bit Digitizers User Manual lists 2 GS/s maximum sampling, 500 MHz bandwidth, 256 kpoints standard memory per channel expandable to 16 Mpoints, 5 ps timing resolution and 2 ppm clock accuracy. High-speed transient capture, physics experiment digitizing, and automated waveform acquisition in CompactPCI crates. Oscilloscope style input and trigger features The Acqiris DC240 is an 8-bit dual-channel CompactPCI digitizer with oscilloscope characteristics. OEM Keysight Acqiris 8-bit Digitizers User Manual lists 2 GS/s maximum sampling, 500 MHz bandwidth, 256 kpoints standard memory per channel expandable to 16 Mpoints, 5 ps timing resolution and 2 ppm clock accuracy. High-speed transient capture, physics experiment digitizing, and automated waveform acquisition in CompactPCI crates. Oscilloscope style input and trigger features Channel Count Simultaneous Max Rate: 1 channel at 2 GS/s or 2 channels interleaved class per manual table



MODEL

Acqiris DC240

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DC240

LISTING

<https://aumictechlabs.com/products/dc240-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Acqiris DC240 is a modular dual-channel CompactPCI digitizer engineered for high-speed data acquisition with oscilloscope-class signal fidelity. Operating at 2 GS/s sampling rate with 500 MHz bandwidth, this 6U CompactPCI module delivers simultaneous acquisition across both channels into 256 kpoints of memory per channel. Designed for system integration, it interfaces via 32-bit PCI bus at 33 MHz with data transfer rates to 520 MB/s and supports multi-module synchronization through ASBus/ASBus2 for expanded channel count.

Technical Specifications
Sampling Rate: 2 GS/s (simultaneous, dual-channel) Bandwidth: 500 MHz Acquisition Memory: 256 kpoints per channel Input Impedance: 1 M Ω Maximum Input Amplitude: ± 5 V Maximum Input Voltage (1 M Ω): ± 100 V (dc + ac) External Clock Threshold: User-selectable, -3.0 V to $+3.0$ V Host Interface: PCI bus (32-bit, 33 MHz), 520 MB/s data transfer Power Consumption: Typical 15 W (single-channel 1 GS/s reference; DC240 consumption implied lower) Form Factor: 6U CompactPCI standard

Key Features
Dual simultaneous channels with independent acquisition paths Two data samples generated per sampling interval - acquisition and readout dimensioned for doubled data volume with drop/average options User-selectable clock threshold for external synchronization ASBus/ASBus2 multi-module synchronization for instrument-level integration Soft Front Panel graphical interface offering scope-like waveform display and control

Typical Applications
High-speed transient capture and signal characterization Multi-channel time-correlated measurements in modular crate systems System-level data acquisition with CompactPCI/PXI infrastructure

Compatibility & Integration
Operates within CompactPCI/PXI crate platforms. Drivers, API, code examples, and documentation supplied. Compatible with Windows and Linux. Programming support includes Visual Basic and MATLAB environments. Soft Front Panel provides intuitive scope-style interface for waveform exploration and parameter adjustment.

DC240 Characteristics / Specifications

PARAMETER	VALUE
Model	DC240
Instrument Type	CompactPCI digitizer
Vertical Resolution	8 bits
Maximum Sample Rate	2 GS/s
Channel Count Simultaneous Max Rate	1 channel at 2 GS/s or 2 channels interleaved class per manual table
Analog Bandwidth	500 MHz
Bandwidth Filter Typical	400 MHz path listed
Input Capacitance Typical	11 pF
Standard Acquisition Memory	256 kpoints per channel
Maximum Acquisition Memory	16 Mpoints
Segmented Acquisition Segments	up to 8000
Timing Resolution	5 ps
Clock Accuracy	2 ppm
Maximum Input Voltage	plus or minus 3 V
Trigger Threshold Range	minus 3.0 V to plus 3.0 V
Minimum Sample Rate	100 S/s
Sample Rate Sequence	1 2 2.5 4 5 progression
Front Connector	BNC
Form Factor	CompactPCI modular digitizer
Pci Transfer Context	32 bit CompactPCI crate
Power Rails Typical Plus 5 V	about 2.1 A class manual table
Power Rails Typical Plus 3.3 V	about 100 mA class
Power Rails Typical Plus 12 V	about 40.9 W class total listing
Module Mass Typical	1.3 kg class
Series Family	Acqiris DC series 8 bit digitizers

PARAMETER	VALUE
Keysight Alias Family	U106x Acqiris digitizer family
Bandwidth	500 MHz

DC240 Specifications

PARAMETER	VALUE
Acqiris Keysight DC240 Dual Channel CompactPCI Digitizer	Overview
Key Features	2 GS/s maximum sample rate
Dual channel 8 bit conversion	500 MHz analog bandwidth
Technical Specifications	Model: DC240
Notes	Numeric rows from Keysight Acqiris 8-bit Digitizers User Manual tables for DC240 (sample rate, memory, timing, input, power).

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.

characteristics. OEM Keysight Acqiris 8-bit Digitizers User Manual lists 2 GS/s maximum sampling, 500 MHz bandwidth, 256 kpoints standard memory per channel expandable to 16 Mpoints, 5 ps timing resolution and 2 ppm clock accuracy.

Applications

High-speed transient capture, physics experiment digitizing, and automated waveform acquisition in CompactPCI crates.

Key Features

2 GS/s maximum sample rate

Dual channel 8 bit conversion

500 MHz analog bandwidth

CompactPCI modular form factor

Oscilloscope style input and trigger features

Technical Specifications

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Notes
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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

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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.