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Data Sheet

August 13, 2026

KEITHLEY

Keithley KPCI-PDISO8A PCI Bus Isolated I/O Board

The Keithley KPCI-PDISO8A is a PCI bus isolated digital I/O board designed for industrial data acquisition and control applications. It provides isolated digital inputs and outputs, protecting your PC from voltage spikes and ground loops. This board is ideal for connecting to sensors, actuators, and other industrial devices in harsh environments.



MODEL

Keithley KPCI-PDISO8A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

KPCI-PDISO8A

LISTING

<https://aumictechlabs.com/products/kpci-pdiso8a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Keithley KPCI-PDISO8A is a PCI bus isolated digital I/O board engineered for industrial data acquisition and control applications. It delivers eight optically isolated digital inputs and eight relay outputs - five Form C relays and three Form A relays - with galvanic isolation up to 60V channel-to-channel and channel-to-chassis. The board protects against voltage spikes and ground loops through optical isolation and on-board transient protection, making it suitable for harsh industrial environments with sensors, actuators, and external devices. Technical Specifications Digital Inputs (8 channels) Solid-state, optically isolated inputs Voltage range: DC or AC, up to 60VDC, 30Vrms Logic levels: High $>|\pm 2.5V|$, Low $<|\pm 1.0V|$ Response time: 0.6ms typical, 1.0ms maximum Selectable low-pass filter: 5ms time constant (200Hz), for AC or slow DC signals Not polarity sensitive; supports AC (50–1000Hz) or DC operation External interrupt and edge-latching capability for signal synchronization Digital Outputs (8 channels) Electromechanical relays: five

Form C, three Form A (N.O.) Voltage range: DC or AC, up to 60VDC, 30Vrms Maximum load current: 350mA per channel On-resistance: 3.5Ω typical, 4Ω maximum Relay switching times: 1.0ms on-time (max. 3.5ms), 80 μ s off-time (max. 200 μ s) Leakage current: 316nA typical at 60VDC, 50°C, 30% RH (2 μ A maximum) Electrical & Isolation Power requirement: +5V, 500mA maximum (additional 1A available from pin 1) Channel isolation: 60V minimum guaranteed Optical isolation reduces noise immunity and ground loop susceptibility Environmental Operating temperature: 0 to 50°C Storage temperature: -20 to 70°C Humidity (non-condensing): 0 to 80% at 35°C Key Features Optically isolated inputs and relay outputs for ground-loop immunity On-board transient protection against voltage spikes Selectable low-pass filtering for AC and slow DC measurements Programmable interrupt capability with edge-triggered latching 33MHz PCI bus interface; standard form-factor PCI card Includes 32-bit DriverLINX software for Windows Typical Applications Industrial automation, sensor interfacing, equipment control, data acquisition in electrically noisy environments, relay-switched loads, and isolation-critical measurement systems. Compatibility & Integration 33MHz PCI bus slot; 32-bit DriverLINX software driver for Windows-based systems.

KPCIPDISO8A Characteristics / Specifications

PARAMETER	VALUE
Model	KPCI-PDISO8A
Manufacturer	Keithley Instruments
Instrument Type	PCI opto isolated digital I/O board
Alias	KPCI-PDISO8A; KPCI PDISO8A
Host Bus	PCI
Digital Inputs	8 opto isolated
Digital Outputs	8 opto isolated FormAN.O.
Input Type	solid state opto isolated DC (AC with optional filter)
Input Logic High DC	plus/minus 2.5 to plus/minus 60 VDC
Input Logic Low DC	plus/minus 1.0 VDC
Input Response Time	0.6 ms typical, 1.0 ms max
Isolation	60 V peak
AC Filter Time Constant	175 ms (optional)
AC Sense High	10 to 42 V p-p
AC Line Frequency Sense	50 and 60 Hz
Load Voltage DC	plus/minus 60 VDC
Load Voltage AC	30 VRMS
Load Current DC	350 mA DC
Load Current AC	247 mA RMS
Off State Leakage	316 nA typical, 2000 nA max
On State Resistance	3.5 ohm typical, 4.0 ohm max
Relay Turn On	1.0 ms typical, 3.5 ms max
Relay Turn Off	80 us typical, 200 us class
Related 16 Channel	KPCI-PIO32IOA
ISA Predecessor	PDISO-8

PARAMETER	VALUE
Software	DriverLINX
Interrupt	INT_ENN / INT_REQ on IP7/IP6 Notes Specs from Keithley KPCI-PDISO8A RevBdocument (8 isolated in, 8 FormAout, plus/minus 60 VDC, 350 mA DC). Confirm optional AC filter population and versus KPCI-PIO32IOA 16-channel sibling.

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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PARAMETER	VALUE
Model	KPCI-PDIS08A
Manufacturer	Keithley Instruments
Instrument Type	PCI opto isolated digital I/O board
Specifications	
PARAMETER	VALUE
Alias	KPCI-PDIS08A; KPCI PDIS08A
Host Bus	PCI
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Digital Outputs	8 opto isolated FormAN.0.
Input Type	solid state opto isolated DC (AC with optional filter)
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Load Current AC	247 mA RMS
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On State Resistance	3.5 ohm typical, 4.0 ohm max

Specifications

PARAMETER	VALUE
Relay Turn On	1.0 ms typical, 3.5 ms max
Relay Turn Off	80 us typical, 200 us class
Related 16 Channel	KPCI-PI032IOA

Specifications

PARAMETER	VALUE
ISA Predecessor	PDISO-8
Software	DriverLINX
Interrupt	INT_ENN / INT_REQ on IP7/IP6

Notes

Specs from Keithley KPCI-PDIS08A RevBdocument (8 isolated in, 8 FormAout, plus/minus 60 VDC, 350 mA DC). Confirm optional AC filter population and versus KPCI-PI032IOA 16-channel sibling.

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.