

**Aumictech**

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Data Sheet

August 13, 2026

KEITHLEY

Keithley KPCI-PIO32IOA PCI Bus Isolated I/O Board

Dimensions: 18.1 cm x 10.8 cm x 1.9 cm (7.1 in x 4.25 in x 0.75 in) Related Half Channel: KPCI-PDISO8A 8 in 8 out Accessories: CAB-1284CC-0.5, CAB-1284CC-2, STP-36 Specs from Keithley KPCI-PIO32IOA and KPCI-PDISO8A User Manual Appendix A (KPCIPIO32IOA_901_01B). Confirm 16/16 channel count versus PDISO8A. Do not use non-isolated +5 V pins when isolation is required. Related Half Channel: KPCI-PDISO8A 8 in 8 out Accessories: CAB-1284CC-0.5, CAB-1284CC-2, STP-36 Specs from Keithley KPCI-PIO32IOA and KPCI-PDISO8A User Manual Appendix A (KPCIPIO32IOA_901_01B). Confirm 16/16 channel count versus PDISO8A. Do not use non-isolated +5 V pins when isolation is required.



MODEL

Keithley KPCI-PIO32IOA

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

KPCI-PIO32IOA

LISTING

<https://aumictechlabs.com/products/kpci-pio32ioa-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley KPCI-PIO32IOA is a 32-bit PCI bus digital I/O board delivering 32 optically isolated channels - 16 inputs and 16 outputs - for industrial control and data acquisition. Each channel handles DC or AC signals up to 60VDC or 30Vrms with 350mA maximum load current, making it suitable for switching relays, valves, solenoids, and other industry-standard loads. Solid-state MOSFET output switches provide 3.5Ω typical on-resistance and response times under 1.0ms

maximum, while optically isolated inputs detect logic thresholds above $\pm 2.5\text{V}$ (high) and below $\pm 1.0\text{V}$ (low) with selectable low-pass filtering for AC or slow DC signals. On-board transient protection and 60V channel-to-channel and channel-to-chassis isolation deliver noise immunity in electrically harsh environments. The board interfaces via a 36-pin connector to optional screw terminal panels and accessory cables, drawing maximum 500mA from the +5V bus with an additional 1A available from dedicated pin 1. Windows 32-bit DriverLINX software provides software integration. Operating range spans 0°C to 50°C; storage extends to -20°C to 70°C. EMC compliance meets EN61326-1; safety conforms to EN61010-1.

KPCIPIO32IOA Characteristics / Specifications

PARAMETER	VALUE
Model	KPCI-PIO32IOA
Manufacturer	Keithley Instruments
Instrument Type	PCI bus isolated digital I/O board
Alias	KPCI PIO32IOA; KPCIPIO32IOA
Control Input Quantity	16
Control Input Type	solid-state opto-isolated
Voltage Input Logic High	plus/minus 2.5 V typ to plus/minus 60 V DC max
Voltage Input Logic Low	plus/minus 1.0 V DC max
Input Response Time	0.6 ms typ, 1.0 ms max without optional filter
Isolation	60 V peak channel to channel, channel to PC, channel to chassis
AC Filter Time Constant Optional	175 ms typ
AC Sense Voltage Logic High	10 V pp typ, 42 V pp max
AC Sense High Frequency	50 and 60 Hz sensing class
Output Quantity	16
Output Type	solid-state opto-isolated N.O. FormALoad Voltage DC: plus/minus 60 V DC max
Load Voltage AC	30 V RMS max
Load Current DC	350 mA max (derate 3.6 mA perCabove 25 C)
Load Current AC	247 mA RMS max
Off State Leakage	316 nA typ, 2000 nA max
On State Channel Resistance	3.5 ohm typ, 4.0 ohm max
Relay Turn On Time	1.0 ms typ, 3.5 ms max
Relay Turn Off Time	80 us typ, 200 us max
Power Dissipation Per Channel	430 mW max class
Power Requirements	+5 V, 500 mA maximum
Non Isolated Plus 5 V Capacity	1.0 A convenience only

PARAMETER	VALUE
Operating Temperature	0 C to 50 C
Storage Temperature	-20 C to 70 C
Humidity	0 to 80 percent noncondensing at 35 C
Dimensions	18.1 cm x 10.8 cm x 1.9 cm (7.1 in x 4.25 in x 0.75 in)
Weight	0.13 kg (0.30 lb)
Related Half Channel	KPCI-PDISO8A 8 in 8 out
Related ISA	PIO-32I/O
Accessories	CAB-1284CC-0.5, CAB-1284CC-2, STP-36

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	0 to 80 percent noncondensing at 35 C
Dimensions	18.1 cm x 10.8 cm x 1.9 cm (7.1 in x 4.25 in x 0.75 in)
Weight	0.13 kg (0.30 lb)
Related Half Channel	KPCI-PDISO8A 8 in 8 out
Related ISA	PIO-32I/O
Accessories	CAB-1284CC-0.5, CAB-1284CC-2, STP-36 Notes Specs from Keithley KPCI-PIO32IOA and KPCI-PDISO8A User Manual Appendix A (KPCIPIO32IOA_901_01B). Confirm 16/16 channel count versus PDISO8A. Do not use non-isolated +5 V pins when isolation is required.

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	
Specifications	
PARAMETER	VALUE
Model	KPCI-PI032IOA
Manufacturer	Keithley Instruments
Instrument Type	PCI bus isolated digital I/O board
Alias	KPCI PI032IOA; KPCIPI032IOA
Control Input Quantity	16
Control Input Type	solid-state opto-isolated
Voltage Input Logic High	plus/minus 2.5 V typ to plus/minus 60 V DC max
Voltage Input Logic Low	plus/minus 1.0 V DC max
Input Response Time	0.6 ms typ, 1.0 ms max without optional filter
Isolation	60 V peak channel to channel, channel to PC, channel to chassis
AC Filter Time Constant Optional	175 ms typ
AC Sense Voltage Logic High	10 V pp typ, 42 V pp max
AC Sense High Frequency	50 and 60 Hz sensing class
Output Quantity	16
Output Type	solid-state opto-isolated N.O. FormALoad Voltage DC: plus/minus 60 V DC max
Load Voltage AC	30 V RMS max
Load Current DC	350 mA max (derate 3.6 mA perCabove 25 C)
Load Current AC	247 mA RMS max
Off State Leakage	316 nA typ, 2000 nA max
On State Channel Resistance	3.5 ohm typ, 4.0 ohm max
Relay Turn On Time	1.0 ms typ, 3.5 ms max
Relay Turn Off Time	80 us typ, 200 us max
Power Dissipation Per Channel	430 mW max class
Power Requirements	+5 V, 500 mA maximum
Non Isolated Plus 5 V Capacity	1.0 A convenience only

PARAMETER	VALUE
Operating Temperature	0 C to 50 C
Storage Temperature	-20 C to 70 C
Humidity	0 to 80 percent noncondensing at 35 C
Dimensions	18.1 cm x 10.8 cm x 1.9 cm (7.1 in x 4.25 in x 0.75 in)
Weight	0.13 kg (0.30 lb)
Related Half Channel	KPCI-PDIS08A 8 in 8 out
Related ISA	PIO-32I/O
Accessories	CAB-1284CC-0.5, CAB-1284CC-2, STP-36

Notes

Specs from Keithley KPCI-PI032IOA and KPCI-PDIS08A User Manual Appendix A (KPCIPI032IOA_901_01B). Confirm 16/16 channel count versus PDIS08A. Do not use non-isolated +5 V pins when isolation is required.

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.