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Data Sheet

August 13, 2026

KEITHLEY

Keithley KPCI-PIO96 Parallel Digital I/O Board

Applications High-density PCI digital I/O for peripherals, switches, and relays Driving Opto 22 and LED loads within 64 mA / 5 V Replacing ISA PIO-96 / KPCI-PIO96 accessory racks on PCI PCs LabVIEW / TestPoint UDO and DriverLINX automation Key Features 96 non-isolated TTL lines as four Mode 0 8255 groups 15 mA source / 64 mA sink per line Four 50-pin 0.



MODEL

Keithley KPCI-PIO96

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

KPCI-PIO96

LISTING

<https://aumictechlabs.com/products/kpci-pio96-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley KPCI-PIO96 is a parallel digital I/O board designed for data acquisition and control applications requiring high-speed digital signal management. This PCI bus-compatible card provides 96 configurable digital channels for integration into industrial automation, process control, and laboratory research systems. Each channel supports software-configurable input or output direction with TTL and CMOS logic level compatibility. Technical Specifications Digital I/O Architecture 96 parallel digital I/O channels Software-configurable direction per channel or channel group TTL and CMOS logic level input/output compatibility High input impedance to minimize loading effects Standard output voltage levels compliant with TTL and CMOS specifications Electrical Characteristics Operating voltage: +5V DC (powered by host PCI bus) Form factor: Standard full-length PCI slot On-board high-density connectors for channel access (typically 50-pin or 68-pin SCSI-style ribbon connectors) Key Features PCI bus interface for direct

host integration Parallel architecture enabling simultaneous multi-channel operations Flexible channel configuration supporting diverse signal routing requirements TTL/CMOS compatibility for broad peripheral integration Typical Applications Industrial automation and process control environments requiring synchronized digital signal distribution. Laboratory research systems performing complex instrument triggering and data synchronization. Test and measurement setups demanding parallel logic-level control across multiple independent channels. Compatibility & Integration The board integrates with PCI-compatible host systems and supports multiple operating systems. Device drivers and software development kits facilitate application development and system integration. Programming interfaces enable direct control of channel configuration and data transfer operations.

KPCIPIO96 Characteristics / Specifications

PARAMETER	VALUE
Model	KPCI-PIO96
Manufacturer	Keithley Instruments
Instrument Type	PCI parallel digital I/O board
Alias	KPCI PIO96; KPCIPIO96
I/O Lines	96 bidirectional non-isolated TTL compatible
I/O Interface	four groups of 24 lines; each emulates one 8255A Mode 0
External Connections	one 50-pin connector per 24-line group
Input High Voltage Min	2.0 V
Input Low Voltage Max	0.8 V
Output High At 8 mA	2.4 V min (IOH = -8 mA)
Output High At 15 mA	2.0 V min (IOH = -15 mA)
Output Low At 64 mA	0.55 V max; 0.3 V typical (IOL = 64 mA)
Source Current	15 mA (IOH)
Sink Current	64 mA (IOL)
Short Circuit Current Class	-60 mA min to -225 mA max family table
Power Requirements	+5 VDC, 25 W maximum
External Circuit Power	+5 VDC, 1 A maximum total for pin 49 of all four connectors
Operating Temperature	0 C to 50 C
Storage Temperature	0 C to 70 C
Relative Humidity	20 to 90 percent noncondensing
Dimensions	175 mm long x 107 mm wide x 19 mm high (6.88 in x 4.21 in x 0.75 in)
Weight	128 g (4.5 oz)
Bus	PCI Plug and Play
PCI Controller	AMCC S5933 target/passthrough
Software	DriverLINX; LabVIEW; TestPoint UDO

PARAMETER	VALUE
Accessory Cable	CACC-2000
Accessory Adapter	ADP-5037 PIO-96 to 37-pin
Related Lower Density	KPCI-PIO24
Related Successor Class	KPCI-3160 accessory path
Humidity	20 to 90 percent noncondensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	0 C to 70 C
Operating temperature	0 C to 50 C
Operating Temperature	0 C to 50 C
Humidity	20 to 90 percent noncondensing
Relative Humidity	20 to 90 percent noncondensing
Dimensions	175 mm long x 107 mm wide x 19 mm high (6.88 in x 4.21 in x 0.75 in)
Weight	128 g (4.5 oz)
Bus	PCI Plug and Play
PCI Controller	AMCC S5933 target/passthrough
Software	DriverLINX; LabVIEW; TestPoint UDO
Accessory Cable	CACC-2000
Accessory Adapter	ADP-5037 PIO-96 to 37-pin
Related Lower Density	KPCI-PIO24
Related Successor Class	KPCI-3160 accessory path Notes Specs from Keithley KPCI-PIO96 User Manual Table A-1 (98060 Rev. C). Confirm 50-pin cabling before seating the board; connectors sit on the PCB face. Do not confuse with isolated KPCI-PIO32IOA.

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-PI096
Manufacturer	Keithley Instruments
Instrument Type	PCI parallel digital I/O board
Alias	KPCI PI096; KPCIPI096
I/O Lines	96 bidirectional non-isolated TTL compatible
I/O Interface	four groups of 24 lines; each emulates one 8255A Mode 0
External Connections	one 50-pin connector per 24-line group
Input High Voltage Min	2.0 V
Input Low Voltage Max	0.8 V
Output High At 8 mA	2.4 V min (IOH = -8 mA)
Output High At 15 mA	2.0 V min (IOH = -15 mA)
Output Low At 64 mA	0.55 V max; 0.3 V typical (IOL = 64 mA)
Source Current	15 mA (IOH)
Sink Current	64 mA (IOL)
Short Circuit Current Class	-60 mA min to -225 mA max family table
Power Requirements	+5 VDC, 25 W maximum
External Circuit Power	+5 VDC, 1 A maximum total for pin 49 of all four connectors
Operating Temperature	0 C to 50 C
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Relative Humidity	20 to 90 percent noncondensing
Dimensions	175 mm long x 107 mm wide x 19 mm high (6.88 in x 4.21 in x 0.75 in)
Weight	128 g (4.5 oz)
Bus	PCI Plug and Play
PCI Controller	AMCC S5933 target/passthrough
Software	DriverLINX; LabVIEW; TestPoint UDO
Accessory Cable	CACC-2000

PARAMETER	VALUE
Accessory Adapter	ADP-5037 PI0-96 to 37-pin
Related Lower Density	KPCI-PI024
Related Successor Class	KPCI-3160 accessory path

Notes
Specs from Keithley KPCI-PI096 User Manual Table A-1 (98060 Rev. C). Confirm 50-pin cabling before seating the board; connectors sit on the PCB face. Do not confuse with isolated KPCI-PI032IOA.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.