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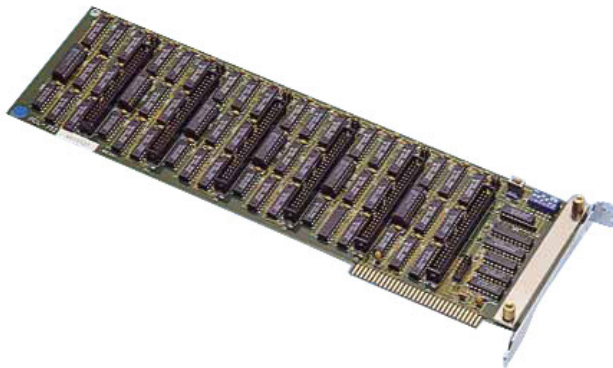
Data Sheet

August 15, 2026

ADVANTECH

Advantech PCL-722 144-Channel Digital I/O ISA Card

The Advantech PCL-722 is a 144-channel digital I/O ISA card engineered for industrial automation, process control, and data acquisition systems. This full-size PC add-on card delivers 144 TTL digital I/O lines organized as six 24-line ports, with each port subdivided into three 8-bit subsidiary ports (A, B, and C). The card emulates 8255 Programmable Peripheral Interface mode 0 functionality with buffered output circuits that exceed standard 8255 driving capacity. Each 8-bit port can be independently configured via software as input or output, and Port C divides into two 4-bit sections for flexible control schemes. Compatibility & Integration Pin assignments are fully compatible with Opto-22 I/O module racks, enabling straightforward integration into existing industrial control systems. The card fits any full-length ISA-bus expansion slot in IBM PC XT/AT or compatible computers. Six 50



MODEL

Advantech PCL-722

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCL-722

LISTING

<https://aumictechlabs.com/products/pcl-722-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech PCL-722 is a 144-channel digital I/O ISA card engineered for industrial automation, process control, and data acquisition systems. This full-size PC add-on card delivers 144 TTL digital I/O lines organized as six 24-line ports, with each port subdivided into three 8-bit

subsidiary ports (A, B, and C). The card emulates 8255 Programmable Peripheral Interface mode 0 functionality with buffered output circuits that exceed standard 8255 driving capacity. Each 8-bit port can be independently configured via software as input or output, and Port C divides into two 4-bit sections for flexible control schemes. Technical Specifications 144 TTL digital I/O lines in six 24-line ports Port organization: Port A and B (8-bit each), Port C (split into two 4-bit ports per channel) 8255 PPI mode 0 emulation with buffered output circuits Hardware interrupt capability on Port C bits 0 and 3; configurable to IRQ 2, 3, 4, 5, 6, or 7 with tri-stated sharing support Output status readback for monitoring digital output levels Requires 32 consecutive I/O address locations (base address via 6-position DIP switch); optional 16-location addressing reduces usable I/O to 96 bits Power consumption: +5 V @ 1.3 A typical, +5 V @ 1.8 A maximum Input logic levels: High 2.0–5.25 V, Low 0.0–0.80 V Digital output specifications: Port A/B (Logic 0: 0.4 V max @ 12 mA sink; Logic 1: 2.4 V min @ 8.0 mA source); Port C (Logic 0: 0.5 V max @ 24 mA sink; Logic 1: 2.0 V min @ 15 mA source) Form factor: Full-length ISA bus card (334 mm × 100 mm) Key Features Software-configurable input/output on each 8-bit port Hardware interrupt generation with multi-board sharing capability Direct output readback without intermediate sensing circuitry DIP switch-based address configuration throughout IBM PC I/O space Compatibility & Integration Pin assignments are fully compatible with Opto-22 I/O module racks, enabling straightforward integration into existing industrial control systems. The card fits any full-length ISA-bus expansion slot in IBM PC XT/AT or compatible computers. Six 50-pin male ribbon-cable connectors support field-wiring connections.

PCL722 Characteristics / Specifications

PARAMETER	VALUE
Model	PCL-722
Instrument Type	144-channel digital I/O ISA card
Digital I/O Channels	144 (24 channels x 6 ports) shared input/output
Programming Mode	8255 PPI mode 0
Digital Compatibility	5 V TTL
Input Logic	0.8 V maximum
Output PortA B Logic	0.5 V maximum
Output PortC Logic	0.4 V maximum
PortA B Sink Current	12 mA
PortA B Source Current	8 mA
PortC Sink Current	24 mA
PortC Source Current	15 mA
Interrupt Capable Bits	PortC bits 0 and 3
Irq Lines	IRQ 2 3 4 5 6 or 7
I/O Connectors	6 × 50-pin box header
Bus Type	ISA
Power Consumption Typical	plus 5 V at 1.3 A
Power Consumption Maximum	plus 5 V at 1.8 A
Transfer Rate Typical	300 kbytes per second
Transfer Rate Maximum	500 kbytes per second
Operating Temperature	0 to 60 C
Storage Temperature	-20 to 70 C
Operating Humidity	5 to 95 percent RH non-condensing
Dimensions LxH	334 × 100 mm (13.2 × 3.9 inches)
Opto Rack Compatibility	Opto-22 8 16 and 24 position racks

PARAMETER	VALUE
Humidity	5 to 95 percent RH non-condensing

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to 70 C
Operating temperature	0 to 60 C
Operating Temperature	0 to 60 C
Humidity	5 to 95 percent RH non-condensing
Operating Humidity	5 to 95 percent RH non-condensing
Dimensions LxH	334 × 100 mm (13.2 × 3.9 inches)
Opto Rack Compatibility	Opto-22 8 16 and 24 position racks Notes From Advantech PCL-722 datasheet and user-manual electrical specifications. Each port is three 8-bit groups A/B/C configurable by software for input or output.

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	
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Model	PCL-722
Instrument Type	144-channel digital I/O ISA card
Digital I/O Channels	144 (24 channels x 6 ports) shared input/output
Programming Mode	8255 PPI mode 0
Digital Compatibility	5 V TTL
Input Logic 0	0.8 V maximum
Input Logic 1	2.0 V minimum
Output PortABLogic 0	0.5 V maximum
Output PortABLogic 1	2.4 V minimum
Output PortCLogic 0	0.4 V maximum
Output PortCLogic 1	2.0 V minimum
PortABSink Current	12 mA
PortABSource Current	8 mA
PortCSink Current	24 mA
PortCSource Current	15 mA
Interrupt Capable Bits	PortCbits 0 and 3
Irq Lines	IRQ 2 3 4 5 6 or 7
I/O Connectors	6 x 50-pin box header
Bus Type	ISA
Power Consumption Typical	plus 5 V at 1.3 A
Power Consumption Maximum	plus 5 V at 1.8 A
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Notes

From Advantech PCL-722 datasheet and user-manual electrical specifications. Each port is three 8-bit groups A/B/C configurable by software for input or output.

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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NIST-traceable calibration · SAM registered ·
30-day returns
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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.