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Data Sheet

August 15, 2026

ADVANTECH

Advantech PCL-720 Digital I/O and Counter Card

Advantech Digital Input Board. Frequency Range: 1 MHz to 2.6 MHz, Voltage / Current Range: +5 V @ 500 mA.



MODEL

Advantech PCL-720

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCL-720

LISTING

<https://aumictechlabs.com/products/pcl-720-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Advantech PCL-720 is an ISA bus digital I/O and counter card for PC-compatible systems, delivering 32 independent digital input channels and 32 digital output channels alongside three programmable 16-bit counter/timer channels. Built around the Intel 8253/8254 programmable interval timer, the card supports six software-selectable operational modes including rate generation, event counting, real-time clock, one-shot timing, delay generation, and square wave generation. TTL/DTL compatible I/O operates through 74LS244 driver/buffer circuits, providing high output drive capacity and minimal input loading. Programmable counter frequencies reach 2.6 MHz with count values from 0 to 65,535. Technical Specifications Digital I/O Architecture 32 input channels, 32 output channels (TTL/DTL compatible) 74LS244 driver/buffer circuits for signal conditioning Five 20-pin insulation displacement connectors (two rear-panel accessible, three onboard) Selectable I/O base address: 200h to 3F8h (four consecutive ports) Counter/Timer Performance Three independent 16-bit counters (Intel 8253/8254) Programmable count rate to 2.6 MHz Count range: 0 to 65,535 Six operational modes: rate generator, event counter, real-time

clock, digital one-shot, time delay generator, square wave generator Onboard clock sources: 1 MHz, 100 kHz, 10 kHz (jumper-selectable, with frequency doubling/halving/quartering capability) Physical & Environmental Dimensions: 205 mm × 100 mm (8" × 3.9") Breadboard area: 651 plated-through holes (31 × 21 @ 0.10" pitch) Power: +5 V @ 500 mA typical Operating temperature: 0 to +60 °C Storage temperature: -20 to +70 °C Humidity: 5 to 95% RH non-condensing (IEC 68-2-3)Key Features Onboard breadboard for custom circuit integration Jumper-configurable clock source selection PCL-720+ variant compatibility (interchangeable)Typical Applications Industrial automation, process control, real-time event logging, pulse measurement, frequency generation, and timing applications requiring flexible counter modes.Compatibility & Integration Supports daughter boards including PCLD-782 (16-ch opto-isolated input), PCLD-785 (16-ch relay output), and PCLD-786 (8-ch SSR).

PCL720 Characteristics / Specifications

PARAMETER	VALUE
Model	PCL-720
Instrument Type	Digital I/O and counter ISA card
Digital Input Channels	32
Digital Output Channels	32
Digital Input Compatibility	5 V TTL
Input Logic	0.8 V maximum
Output Logic 0 Sink	0.5 V maximum at 24 mA
Output Logic 1 Source	2.0 V minimum at 15 mA
Counter Channels	3
Counter Resolution	16 bits
Counter Compatibility	5 V TTL
Maximum Input Frequency	1 MHz
Internal Base Clocks	selectable 1 MHz 100 kHz or 10 kHz
Clock Divider Settings	x2 ×1 ×0.5 ×0.25 jumper selectable
Breadboard Plated Holes	540 (30 × 18) on 0.10 inch centers
I/O Connectors	5 × 20-pin box header
Bus Type	ISA IBM PC bus
Slot Requirement	one 62-pin ISA slot
I/O Base Address Range	hex 200 to hex 3F8
Power Consumption Plus 5 V	500 mA
Operating Temperature	0 to 60 C
Storage Temperature	-20 to 70 C
Operating Humidity	5 to 95 percent RH non-condensing
Dimensions	185 × 100 mm (7.3 × 4 inches) PCL-720+ class or 9 × 4.125 inches legacy PCL-720
Driving Capacity	at least 15 TTL loads

PARAMETER	VALUE
Humidity	5 to 95 percent RH non-condensing

PCL720 Specifications

PARAMETER	VALUE
Applications	PC-based digital control, pulse generation, and event timing in ISA industrial PCs.
Key Features	32 buffered TTL digital inputs and 32 outputs
Technical Specifications	Model: PCL-720

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	20 to 70 C
Operating temperature	0 to 60 C
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Humidity	5 to 95 percent RH non-condensing
Operating Humidity	5 to 95 percent RH non-condensing
Dimensions	185 × 100 mm (7.3 × 4 inches) PCL-720+ class or 9 × 4.125 inches legacy PCL-720
Driving Capacity	at least 15 TTL loads Notes From Advantech PCL-720 and PCL-720+ datasheet/manual electrical tables. Legacy PCL-720 after revisionCadds the listed on-board clock sources; dimensions differ slightly between classic PCL-720 and PCL-720+ boards.

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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the listed on-board clock sources; dimensions differ slightly between classic PCL-720 and PCL-720+ boards.

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.