

**Aumictech**

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Data Sheet

August 15, 2026

DANAHER MOTION / IDC

Danaher Motion / IDC PCA-4943 Control Board

Danaher Motion / IDC Motion Controllers. Current: ** 0–7.9 A continuously adjustable, Resolution: ** Up to 36.

**MODEL****Danaher Motion /
IDC PCA-4943****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****PCA-4943****LISTING**<https://aumictechlabs.com/products/pca-4943-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Danaher Motion / IDC PCA-4943 is a microstepping drive control board engineered for precision motion control in industrial automation, robotics, and manufacturing environments. This IDC SmartStep-IPEC series board delivers user-programmable control for stepper motors from 17 to 42 frame sizes, with output current adjustable from 0 to 7.9 A continuously and peak handling up to 8 A. The board incorporates Anti-Resonance technology to maximize torque and optimize step motor performance across the full motion range, achieving microstepping resolution to 36,000 steps/rev for high-fidelity positioning. Technical Specifications Input Power: 90–120 VAC Output Current: 0–7.9 A continuously adjustable; 8 A maximum motor current Microstepping Resolution: Up to 36,000 steps/rev Memory: 60 KB Program Storage: Up to 400 programs (standard) Motor Compatibility: Standard and enhanced 17–42 frame stepper motors Series: IDC SmartStep-IPEC Key Features Anti-Resonance technology optimizes step motor performance and torque delivery User-programmable control with 400-program capacity Internal heatsink and fan enable compact design and multi-axis stackability High microstepping resolution ensures smooth

motion profiles Designed for minimal panel footprint without compromising integration density
Typical Applications Industrial automation systems Robotic motion control Manufacturing process control Multi-axis motion coordination Compatibility & Integration The PCA-4943 connects with stepper motors in the 17–42 frame range, supporting both standard and enhanced motor configurations. Its compact thermal design with integrated heatsink and cooling fan allows efficient stacking in multi-axis applications while maintaining tight electrical performance specifications.

PCA4943 Characteristics / Specifications

PARAMETER	VALUE
Model	PCA-4943
Instrument Type	motion control board
Manufacturer	Danaher Motion / IDC
Literature	remaining-queue listing Danaher Motion / IDC PCA-4943 Control Board
Family	IDC / Danaher Motion PCA control boards
Form Factor	as installed per drawing
System Role	motion control in IDC actuators and stages that specify PCA-4943
Brand Lineage	Danaher Motion / IDC
Queue Title	Danaher Motion / IDC PCA-4943 Control Board
Documentation Type	OEM remaining-queue listing
Use Case	motion control in IDC actuators and stages that specify PCA-4943
Vendor Path	Danaher Motion / IDC
Year Class	PCA-4943 generation
Application Class	motion control board
Module Class	motion control board
Host Class	host on the drawing
Connector Class	connectors on the drawing
Ate Class	industrial / lab ATE class
Control Class	front panel / firmware on the drawing
Environment Class	ambient on the nameplate
Voltage Class	volts on the nameplate
Current Class	amperes on the nameplate
Config	PCA-4943 remaining-queue suffix
Function Class	function on the drawing
Motion Role	IDC control board

PARAMETER	VALUE
Board Role	PCA series control

PCA4943 Specifications

PARAMETER	VALUE
Applications	motion control in IDC actuators and stages that specify PCA-4943 in systems that specify PCA-4943.
Key Features	Danaher Motion / IDC PCA-4943
Technical Specifications	Model: PCA-4943
Notes	From remaining-queue title (Danaher Motion / IDC PCA-4943 Control Board). Axis and I/O maps are on the PCA-4943 drawing.

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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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.