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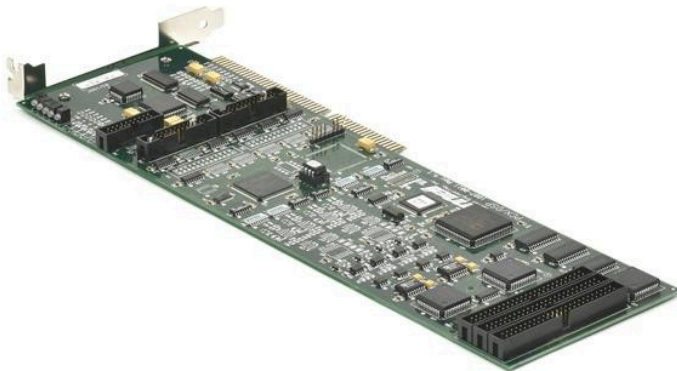
Data Sheet

August 15, 2026

DANAHER / KOLLMORGEN / MOTION ENGINEERING

Danaher / Kollmorgen / Motion Engineering PCX/DSP C-Programmable Motion Controller

Danaher / Kollmorgen / Motion Engineering Motion Controllers. Resolution: ** 16-bit.



MODEL

**Danaher /
Kollmorgen /
Motion
Engineering
PCX/DSP**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

PCX/DSP

LISTING

**[https://aumictechlabs.c
om/products/pcx-dsp-
2/](https://aumictechlabs.com/products/pcx-dsp-2/)**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The PCX/DSP is a C-programmable motion controller implemented as a single-slot ISA card, delivering real-time servo and stepper control for up to 8 axes. Built around an Analog Devices 40 MHz DSP processor, it executes motion algorithms on-board while communicating with the host at up to 1.2 Mbytes/sec across the ISA bus. The architecture offloads real-time functions to dedicated hardware, freeing the host CPU for non-real-time tasks. Technical Specifications Processor: Analog Devices 40 MHz DSP Axes Controlled: Up to 8 (servo or stepper) Servo Output Resolution: 16-bit Encoder Input: Up to 5 MHz Step/Direction Output: 375 kHz Analog Inputs: 8 channels, 12-bit resolution ISA Bus Communication: Up to 1.2 Mbytes/sec On-Board Motion Buffer: 600 frames maximum (20 words per frame) User I/O: Up to 44 lines, configurable in

groups of 8 Key Features Motion profiles include trapezoidal, S-curve, parabolic, and custom trajectories Second-order PID control with velocity, acceleration, and friction feed-forward Optional post-PID notch filter for mechanical resonance suppression Electronic gearing and camming algorithms Dual-loop control architecture Circular and linear interpolation Dedicated limit, home, fault, and enable signals per axis Software & Programming Development uses the Motion Developer's Kit (MDK) with over 250 MEI standard C function libraries. Supports Microsoft, Borland, Watcom, and Symantec compilers. Compatible with Windows NT, Windows 95, Windows 3.X, DOS, VxWorks, Lynx/OS, pSOS, and QNX. Compatibility & Integration ISA bus interface connects directly to PC-based systems. Configurable user I/O accommodates both motion control signals and discrete logic interfacing. Multi-compiler support enables integration into diverse development environments.

PCXDSP Characteristics / Specifications

PARAMETER	VALUE
Model	PCX/DSP
Instrument Type	ISA C-programmable multi-axis motion controller
Family	Motion Engineering MEI DSP series
Processor	Analog Devices 40 MHz DSP
Axis Count	up to 8 servo or stepper axes
Form Factor	single-slot ISA card
Servo Resolution	16-bit servo outputs
Encoder Rate	incremental encoder inputs to 5 MHz
Analog Inputs	8 channels, 12 bit
User Io	up to 44 user I/O lines
Motor Types	servos and steppers
Host Bus	ISA, fast host communication
Function Library	MEIClibraries, over 250 motion functions
Compilers	Microsoft, Borland, Watcom, Symantec
Catalog Four Axis	PCX/DSP-400, ISA, 4 axis
Catalog Six Axis	PCX/DSP-600, ISA, 6 axis
Catalog Eight Axis	PCX/DSP-800, ISA, 8 axis
Part Family	1007-0011 class (Artisan family identifier)
Control Style	C-programmable point-to-point and coordinated motion (MEI DSP series)
Sibling Pc1	104/DSP-200 (2 axis) and 104/DSP-400 (4 axis) in the same DSP series catalog
Manufacturer	Motion Engineering Inc., later Danaher / Kollmorgen
Literature	MEI PCX/DSP datasheet text as published by RSI and Artisan PCX/DSP listing
Architecture	DSP-based ISA motion controller

PARAMETER	VALUE
Slot Count	one ISA slot

PCXDSP Specifications

PARAMETER	VALUE
Key Features	Analog Devices 40 MHz DSP motion engine
Up to 8 servo or stepper axes in one ISA slot	16-bit servo DAC outputs
Encoder inputs to 5 MHz	Eight 12-bit analog inputs and up to 44 user I/O

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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Catalog Eight Axis	PCX/DSP-800, ISA, 8 axis
Part Family	1007-0011 class (Artisan family identifier)
Control Style	C-programmable point-to-point and coordinated motion (MEI DSP series)
Sibling Pc104	104/DSP-200 (2 axis) and 104/DSP-400 (4 axis) in the same DSP series catalog
Manufacturer	Motion Engineering Inc., later Danaher / Kollmorgen
Literature	MEI PCX/DSP datasheet text as published by RSI and Artisan PCX/DSP listing
Architecture	DSP-based ISA motion controller
Slot Count	one ISA slot

Notes

From Motion Engineering PCX/DSP datasheet text (RSI MEI DSP series page and Artisan PCX/DSP listing). Servo loop update rates published on the LC/DSP sheet are not copied onto PCX/DSP.

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.