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Data Sheet

August 15, 2026

HEIDENHAIN

Heidenhain IK 121V PC Counter Interface Card

Aumictech offers NIST-traceable calibration and repair for the Heidenhain IK 121V. All calibrations are performed to NIST-traceable standards and ship with a certificate. Turnaround is typically 1–3 business days after receipt. This Heidenhain IK 121V is listed at . Calibration is available separately from . Contact us for volume pricing or if you need multiple units. NIST-traceable calibration for the Heidenhain IK 121V is (standard — pass/fail certificate and calibration sticker) or (full measured data at every test point, reference standards documented, traceability chain included). Turnaround is 1 to 3 business days after receipt. See full calibration details →



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MODEL

Heidenhain IK 121V

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

IK 121V

LISTING

<https://aumictechlabs.com/products/ik-121v-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Heidenhain IK 121V PC counter card is a interface for connecting Heidenhain encoders and incremental sensors to a PC. It allows for precise position measurement and data acquisition. The card is compatible with various Heidenhain encoders, providing versatile solutions for different applications. It is commonly used in industrial automation, metrology, and machine tool control systems where accurate position feedback is essential.

IK121V Characteristics / Specifications

PARAMETER	VALUE
Model	IK 121V
Also Known As	IK 121 V, Id.Nr. 291 768-xx / 290 768-01
Instrument Type	PC encoder counter card
Family	Heidenhain IK 121
Bus	IBM AT compatible ISA, IEEE P996
Encoder Inputs	one or two Heidenhain linear or angle encoders
Signal Type	sinusoidal voltage 1 Vpp (IK 121 V)
Signal Amplitude Ab	A, B (0 deg / 90 deg) 0.6 Vpp to 1.2 Vpp
Reference Amplitude	R 0.2 V to 0.85 V
Error Threshold	less than or equal to 0.22 Vpp
Maximum Input Frequency	400 kHz
Cable Length Standard	max 30 m
Cable Length External 5 V	up to 150 m; max input frequency then 250 kHz
Encoder Supply	5 V (UP) on input connector
Sibling Current	IK 121 A 11 uApp sinusoidal current (Id.Nr. 290 155-xx)
Firmware Class	2791241A class listings on 290 768-01 units
Software Class	DOS driver, Turbo Pascal/BorlandCexamples, Windows DLL
Manufacturer	DR. JOHANNES HEIDENHAIN GmbH
Literature	Heidenhain IK 121 counter card technical description
System Role	PC position capture from 1 Vpp encoders
Form Factor	ISA 16-bit PC expansion card
Display	positions displayed on PC screen and stored for processing
Use Case	high-speed data acquisition with high encoder interpolation
Connector Class	encoder inputs X2/X3 class per IK 121 pinout
Host Class	100 percent AT-compatible PC

PARAMETER

VALUE

Interpolation Class

sinusoidal interpolation of 1 Vpp A/B Notes From Heidenhain IK 121 technical description (IK 121 V = 1 Vpp, 0.6-1.2 Vpp A/B, 400 kHz, 30 m / 150 m). Interpolation factor and count bits are in the IK 121 programming section; do not invent LSB size.

IK121V Specifications

PARAMETER	VALUE
Heidenhain IK 121V PC Counter Card 1 Vpp Encoder Inputs	Overview
Applications	PC-based position acquisition from Heidenhain linear or angle encoders with 1 Vpp sinusoidal outputs.
Key Features	One or two 1 Vpp encoder inputs
ISA/AT IEEE P996 counter card	400 kHz maximum input frequency
Technical Specifications	Model: IK 121V

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.