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Data Sheet

August 15, 2026

DDC

DDC SB36243IA-3L0 Synchro Angle Position Indication PCI Card

DDC Data Acquisition Systems (DAQ). Channels: ** Six independent synchro/resolver-to-digital con, Accuracy: ** 3 arc-minutes (standard), Frequency Range: ** 57 Hz to 7 kHz.



MODEL

DDC SB36243IA-3L0

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

SB36243IA-3L0

LISTING

<https://aumictechlabs.com/products/sb36243ia-3l0-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The DDC SB36243IA-3L0 is a half-size PCI card that converts synchro and resolver signals into high-resolution digital angle position data. Six independent channels, each equipped with a 16-bit RD-19230 monolithic converter, deliver 3 arc-minute accuracy (1 arc-minute for transformer-isolated variants) across input frequencies from 57 Hz to 7 kHz. The card interfaces electromechanical angle sensors directly to the PCI bus, supporting signal amplitudes up to 26 Vrms or 115 Vrms depending on the power oscillator configuration. Technical Specifications Channels: Six independent synchro/resolver-to-digital conversion channels Converter: DDC RD-19230 16-bit monolithic converter per channel Accuracy: 3 arc-minutes (standard); 1 arc-minute (transformer-isolated) Jitter: ± 1 LSB at 47 Hz to 1 kHz Input Frequency Range: 57 Hz to 7 kHz Input Signal Amplitude: Up to 26 Vrms or 115 Vrms (oscillator-dependent) Power Supply: +5 Vdc, 0.665 A minimum (oscillator, no load) Logic Output: TTL compatible Logic 0: 1.6 mA @ 0.4 V;

Logic 1: 0.4 mA @ 2.8 V (10 TTL loads) Form Factor: Half-size PCI, 6.875 × 4.2 × 0.57 inches
Operating Temperature: 0 to +71 °C or –40 to +85 °C Key Features Built-in synthesized reference eliminates phase-shift errors up to 45° Integrated turns counter tracks synchro/resolver rotations with direction information Incremental encoder output (A, B, Zero Index) per channel Self-test capability: injects 45° test angle; flags channels not reporting 45° ± 1° Built-in-test detects Loss-of-Signal, Loss-of-Tracking, and Loss-of-Reference faults Plug-and-play configuration via PC BIOS - no jumpers or switches required Supports shared interrupts for simplified installation
Typical Applications Radar, infrared and navigation systems, fire control, flight instrumentation and simulators, motor and motion feedback controls, robotics, machine tool control, antenna positioning, process control. Compatibility & Integration PCI bus interface. Each channel operates independently, allowing mixed-signal processing across six simultaneous synchro or resolver inputs.

SB36243IA3L0 Characteristics / Specifications

PARAMETER	VALUE
Model	SB36243IA-3L0
Instrument Type	Synchro angle position indication PCI card
Bus	PCI
Measurement Class	synchro angle position
Manufacturer	DDC Data Device Corporation
Literature	DDC SB36243IA-3L0 listings
Family	DDC synchro/resolver converters
Brand Lineage	DDC
Form Factor	PCI indicator card
System Role	synchro angle indication
Use Case	avionics synchro readout
Documentation Type	OEM SB36243IA-3L0 listing
Year Class	DDC SB36243IA
Application Class	synchro indication
Vendor Path	DDC
Related Module	IAC-37001
Related Ds Card	SB-3622712-365 six channel D/S
Related Bridge	BU-67119W200R-JL0 AceXtreme
Documentation Class	OEM synchro PCI catalog
Control Class	PCI synchro indicator
Companion Role	DDC synchro family
Operating Mode	synchro angle indication
Instrument Class	angle indicator
Protocol Class	synchro
Avionics Class	synchro ATE

PARAMETER	VALUE
Enclosure Class	PCI card
Accuracy Class	DDC angle indication
Input Class	synchro
Display Class	angle position indication

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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Family	DDC synchro/resolver converters
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Use Case	avionics synchro readout
Documentation Type	OEM SB36243IA-3L0 listing
Year Class	DDC SB36243IA
Application Class	synchro indication
Vendor Path	DDC
Related Module	IAC-37001
Related Ds Card	SB-3622712-365 six channel D/S
Related Bridge	BU-67119W200R-JL0 AceXtreme
Documentation Class	OEM synchro PCI catalog
Control Class	PCI synchro indicator
Companion Role	DDC synchro family
Operating Mode	synchro angle indication
Instrument Class	angle indicator
Protocol Class	synchro
Avionics Class	synchro ATE
Enclosure Class	PCI card

PARAMETER	VALUE
Accuracy Class	DDC angle indication
Input Class	synchro
Display Class	angle position indication

Notes

From DDC SB36243IA-3L0 listings (PCI synchro angle-position indication). Resolution, accuracy, and reference frequency are on the SB36243IA data sheet.

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.