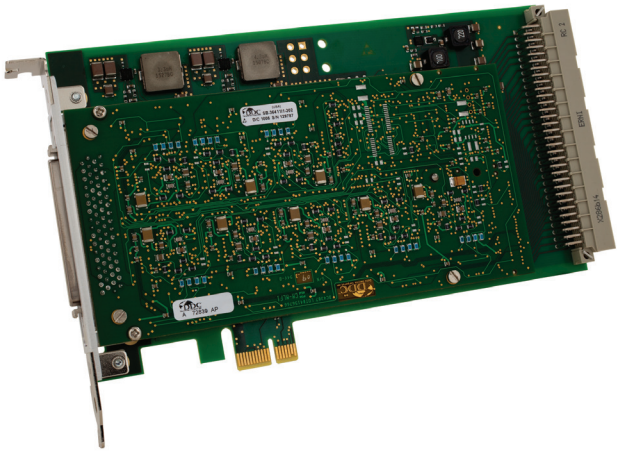
Synchro/Resolver PCIe Boards

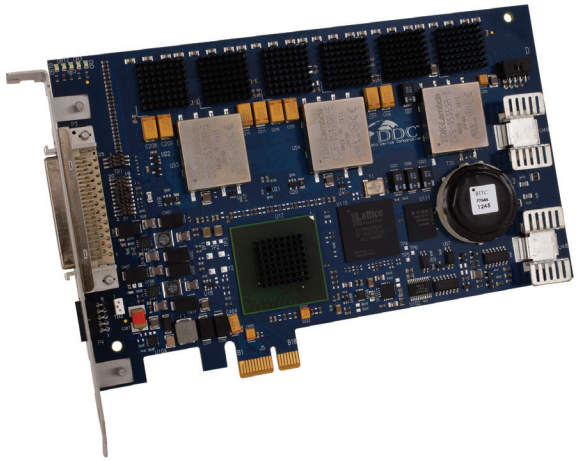
Connectivity Power Control

Product Brief

Models: SB-3625XKX / SB-3623XKX



Input PCIe Board
SB-3625XKX



Output PCIe Board
SB-3623XKX

DDC's motion feedback input and output PCIe boards offer programmable flexibility and high accuracy resolution with high independent channel density.

Features

Input PCIe Board (SB-3625XKX)

- 4 or 8 Synchro/Resolver Input Channels Each with Independent Reference Input
- Accuracy to 1 Arc Minute
- Programmable Resolution and Bandwidth
- Programmable Two-Speed
- Drivers and API Library For Windows® XP/7/8/10 (32-bit and 64-bit) and Linux®
- User-Friendly Windows® Graphical User Interface (GUI)
- Synchro/Resolver Labview® Support Package

Output PCIe Board (SB-3623XKX)

- 4 or 6 Synchro/Resolver Output Channels Each with Independent Reference Input
- Accuracy to 30 Arc Seconds
- Programmable Dynamic Rotation
- Programmable Two-Speed
- On Board Reference Sine Oscillator
- RoHS Compliant and Lead-Free
- Drivers and API Library For Windows® XP/Vista/7 (32-Bit And 64-Bit) and Linux®
- User-Friendly Windows® Graphical User Interface (GUI)
- Synchro/Resolver Labview® Support Package

Benefits

Input PCIe Board (SB-3625XKX)

- Convenient Method for Production and Prototype Testing of Angle Measurement Systems.
- Turn Key GUI to Operate All Board Functions.

Output PCIe Board (SB-3623XKX)

- Convenient Method for Production and Prototype Testing of Angle Measurement Systems.
- Instrument Grade 30 Arc Second Accuracy for Verification of Angle Measurement Systems.
- Turn Key GUI to Operate All Board Functions.

Applications

- High Performance Industrial and Military Position Feedback and Control Systems
- Motor Control
- Machine Tool Control
- Antenna Control
- Robotics and Process Control Systems
- Engineering Development and Production Test

Need a Custom Solution?
DDC can customize designs for all products, ranging from simple modifications of standard products to fully customized solutions for commercial, military, aerospace, and industrial applications.

For more information: www.ddc-web.com/SB-3625XKX | www.ddc-web.com/SB-3623XKX

Printed on recycled paper.

Ordering Information

Input PCIe Board

SB-3625XKX -JL1

- Accuracy:
  - 1 = 1 minute accuracy
- Environmental Temperature Options:
  - JL = 0°C to +55°C Operating Temperature Range, Lab non-rugged
- Number of Channels:
  - 8 = 8 Channels
  - 4 = 4 Channels
- Signal Input Options:

#		Programmable Bandwidth Range (Note 3)
0	2V Single Ended	100/300Hz
1	11.8V Synchro	100/300Hz
2	11.8V Resolver	100/300Hz
3	90V Synchro	100/300Hz
4	90V Synchro (60Hz) (Note 1)	15/45Hz

Notes:

1. 90V Synchro 60Hz not recommended for use in 16-bit resolution mode
2. The above products contain tin-lean solder
3. Bandwidth range selections are user programmable independently for each channel. Bandwidth range is dependent on the Signal Input option in the ordering information above.

Output PCIe Board

SB-3623XKX -JL 3

- Accuracy:
  - 3 = 30 Arc Seconds
- Environmental Temperature Options:
  - JL = 0°C to +55°C Operating Temperature Range, Lab non-rugged
- Output Channel Count:
  - 4 = 4 Channels
  - 6 = 6 Channels
- Output Type / On-board Reference Oscillator Type:
  - 1 = Output: 0 to 11.8 Vrms Synchro/Resolver (DC to 10 kHz) Reference Oscillator: 0 to 26 Vrms (360 Hz to 10 kHz)
  - 2 = Output: 0 to 90 Vrms Synchro (360 Hz to 1 kHz) Reference Oscillator: 0 to 115 Vrms (360 Hz to 1 kHz) (Notes 1, 2)

Notes:

1. Output type is transformer isolated and requires a dual-width slot
2. Adds 2 arc minutes max. to specified accuracy

Included Software

Board	GUI	LabVIEW	Windows Drivers & Libraries	Linux Drivers & Libraries
Input PCIe	✓	✓	✓	✓
Output PCIe	✓	✓	✓	✓

DATA DEVICE CORPORATION
REGISTERED TO:
ISO 9001:2008, AS9100C:2009-01
EN9100:2009, JIS Q9100:2009
FILE NO. 10001296 ASH09

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