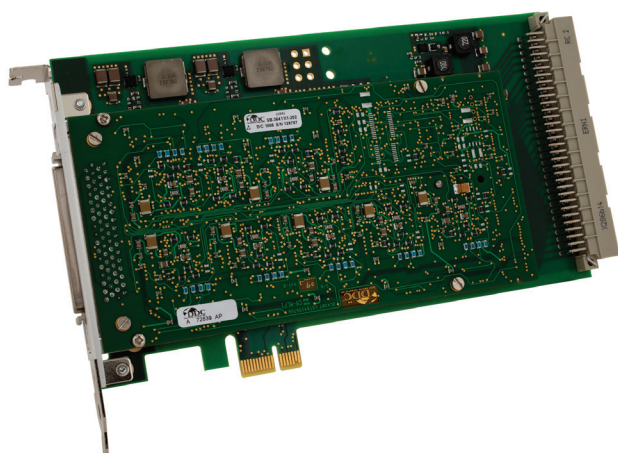


Synchro/Resolver PCIe Boards

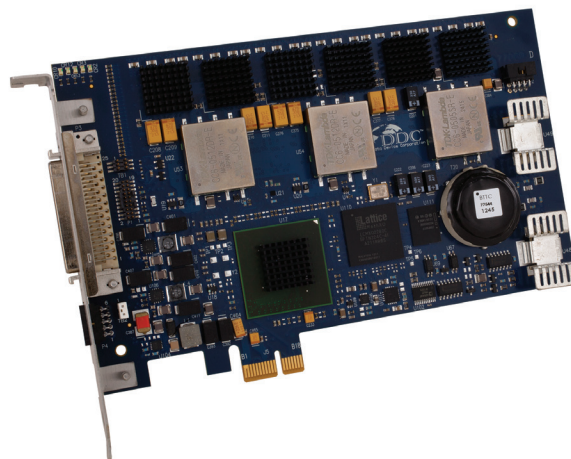


Product Brief

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 Card (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 Card (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 Card (SB-3625XKX)

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

Output PCIe Card (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 Card 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 boards, 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

Ordering Information

Input PCIe Card

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-lead 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 Card

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

Card	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



The information in this Product Brief is believed to be accurate; however, no responsibility is assumed by Data Device Corporation for its use, and no license or rights are granted by implication or otherwise in connection therewith. Specifications are subject to change without notice.

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