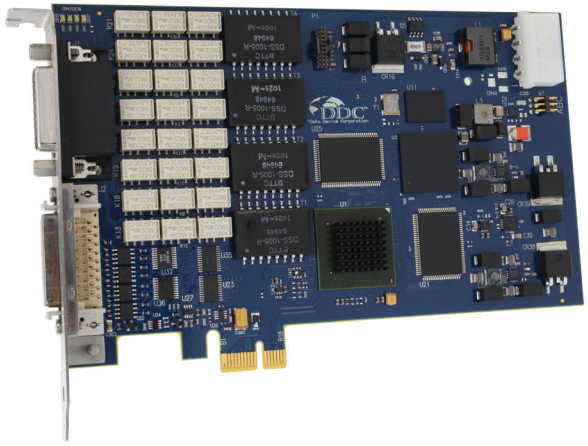
MIL-STD-1553 PCI Express Card

Product Brief

Model: BU-67X06K



DDC's MIL-STD-1553 PCI-Express Card is designed with a one lane PCIe interface to be compatible with all PCIe slots in standard desktop computers. The combination of 1553 with digital and avionics Discrete I/Os offers flexibility that makes the card ideal for test applications.

Key Features

- x1 Lane Native PCIe Card
- MSI Interrupt Support
- On Board High-Performance DMA Engine
- Up to 4 Dual Redundant 1553 Channels
  - 2 MB RAM per Channel
  - MIL-STD-1553A/B and MIL-STD-1760 Support
  - Prog. Direct/Transformer Coupling & Termination
  - Single-Function: BC/MT or Multi-RT/MT per Ch.
  - Multi-Function: BC + Multi-RT + MT per Ch. (BU-67206K)
  - 1553 Bus Playback on All Models
- Test and Simulation Toolkit (BU-67206K)
  - Error Injection
  - Variable Voltage Output
  - Real-Time Intermessage Event/Data Modification
  - Advanced Triggering Capability
  - Intermessage Gap & RT Response Time as Low as 3.5 µs
- 8 Digital and 8 Avionics Discrete I/O
- IRIG-B and External Clock Inputs and Outputs
- 48-Bit/100 ns Time Stamp
- ACEXTREME® - Next generation 1553 Core
- RoHS Compliant

Benefits

- Enhanced Performance
  - On-Board DMA Engine for Low CPU Utilization
  - Bridgeless PCIe Design Reduces Access Time
  - MSI Interrupts Reduce Interrupt Latency
  - (x1) PCIe = Flexibility
- Save Time and Reduce Costs:
  - Common Software API for both DDC Test and Embedded Products for Rapid Prototyping with Less Programming Time
  - Program in Minutes with BusTrACEr™ Automated Application Source Code Generation
  - Test and Simulation Toolkit for Advanced Testing
  - On-Board Programmable Coupling/Termination Reduces Cable Setup Time

Applications

- New Product Development
- System Troubleshooting
- Systems Integration
- Simulators
- Bus or Network Analysis
- Production Test Stands
- System Troubleshooting
- Data Recording
- Automatic Test Applications

Custom Design Capability - DDC can customize designs for all cards, 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/BU-67206K

Overview

The BU-67X06K series contains up to four dual redundant MIL-STD-1553 channels, eight user programmable Digital Discrete I/Os, and eight user programmable Avionics Discrete I/Os. The card is a perfect fit for the all test applications. The combination of a DMA engine, a native PCIe interface, and MSI support gives you maximum performance, ideal for many real time simulation activities.

Quick Specs

THERMAL	MIN	TYP	MAX
Operating Temperature	0 °C	-	+55 °C
Storage Temperature	-45 °C	-	+85 °C

Ordering Information

BU-67X06KX00R-JL0X

- N = Acrylic Conformal Coating
  U = Polyurethane Conformal Coating
  Blank = No Confromal Coating
- 1 = 1 dual redundant MIL-STD-1553 Channel
  2 = 2 dual redundant MIL-STD-1553 Channels
  4 = 4 dual redundant MIL-STD-1553 Channels
- 2 = AceXtreme Multi-Function (BC + Multi-RT + Monitor)
  1 = AceXtreme Single-Function (BC/Monitor or Multi-RT/Monitor)

Included Software:

- 1553 C Software Development Kits (SDKs)
- Windows XP/Vista/7, Linux, and VxWorks support

Included Accessories:

- I/O MIL-STD-1553 Interface Cable
- 36-Position Mating Connector
- 36-Position Mating Backshell

Optional Software:

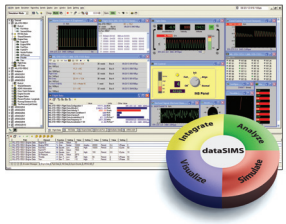
BusTRACER™

Data Bus Analyzer and Monitor Software

- Generate or monitor live MIL-STD-1553 data without writing any code
- Saves time and reduces development costs
- Program in minutes with one-click ANSI 'C' application source code generation
- Rapid creation and setup of custom applications

Model: BU-69066S0-XX0

dataSIMS

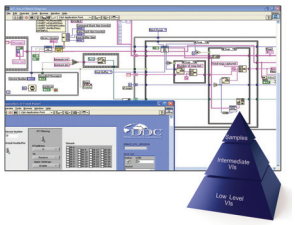


Avionics Data Bus Test and Analysis Software

- Accelerates development and deployment
- Eliminates cost of learning and maintaining separate software programs
- Easy-to-use and customize
- Supports all data protocols and I/O formats

Model: BU-694X4DS-64VM

LabVIEW® & LabVIEW Real-Time Support



- Simple interface for quick startup and easy programming
- Access real-time 1553/429 data using LabVIEW
- Easily integrate data from different types of instruments and sensors
- Create custom user interface from scratch or by modifying samples

Model: BU-69093S0-XX0

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

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