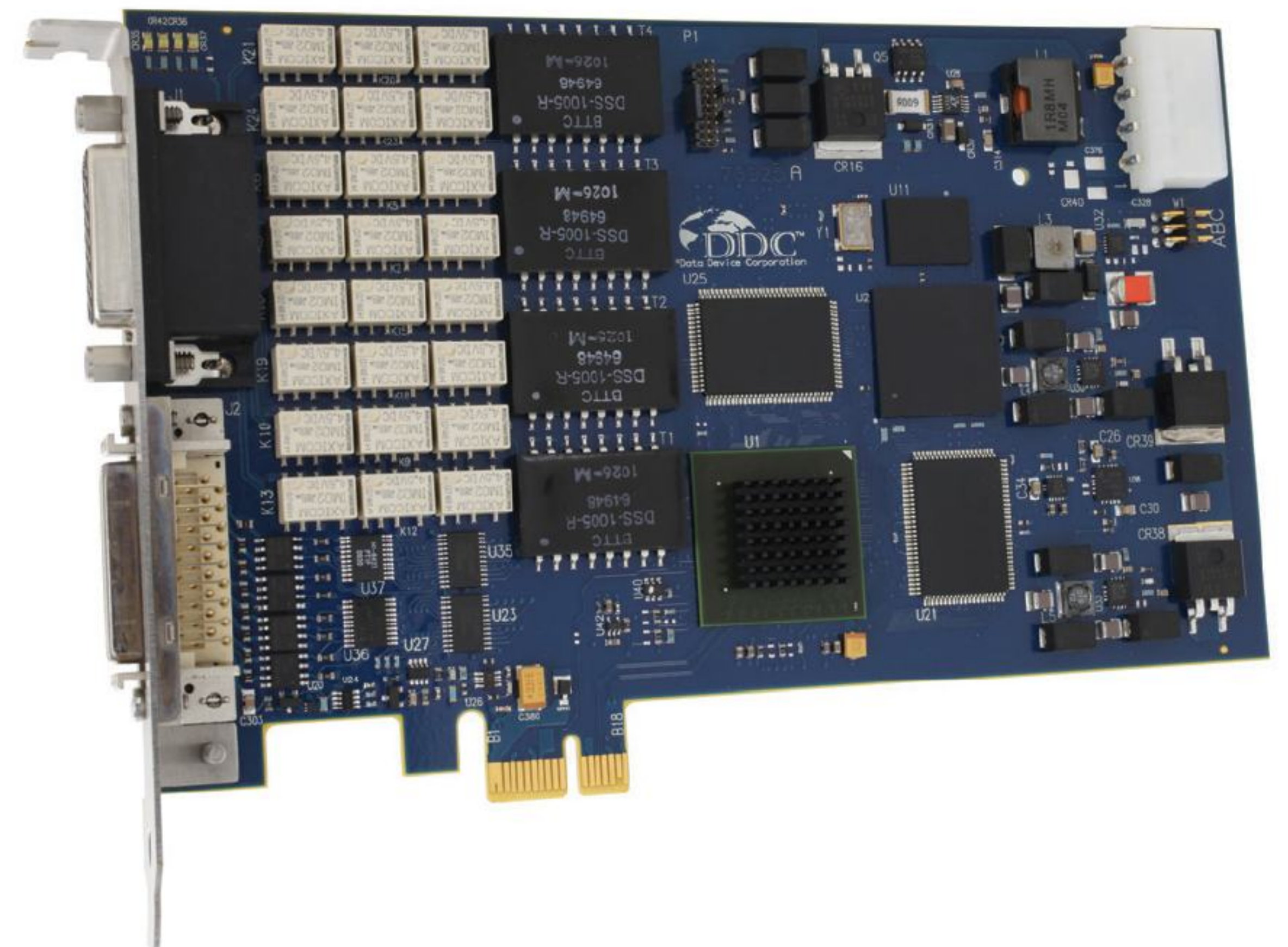


MIL-STD-1553 PCI Express Card

DDC's MIL-STD-1553 PCI-ExpressCard is designed with a onelane 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 μ s
- ◆ 8 Digital and 8 Avionics Discrete I/O
- ◆ IRIG-B and External Clock Inputs and Outputs
- ◆ 48-Bit/100 ns Time Stamp
- ◆ ACEX TREME - 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

PB-BU-67206K-6
12/16

For more information:

www.ddc-web.com/BU-67206K



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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-67 X 06K X00R-JL 0

Test Criteria: 0 = none

Environmental Temperature Options: JL = 0°C to +55°C

Lead Free: R = RoHS Compliant

I/O Options: 1 = 1 dual redundant MIL-STD-1553 Channel

2 = 2 dual redundant MIL-STD-1553

Channels

4 = 4 dual redundant MIL-STD-1553

Channels

Board Type: 06K = PCI Express x1 Board

Options:

1 = AceXtreme Single-Function (BC/Monitor or Multi-RT/Monitor)

2 = AceXtreme Multi-Function (BC + Multi-RT + Monitor)

Family: 67 = AceXtreme Architecture

Included Accessories:

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

Included Software:

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

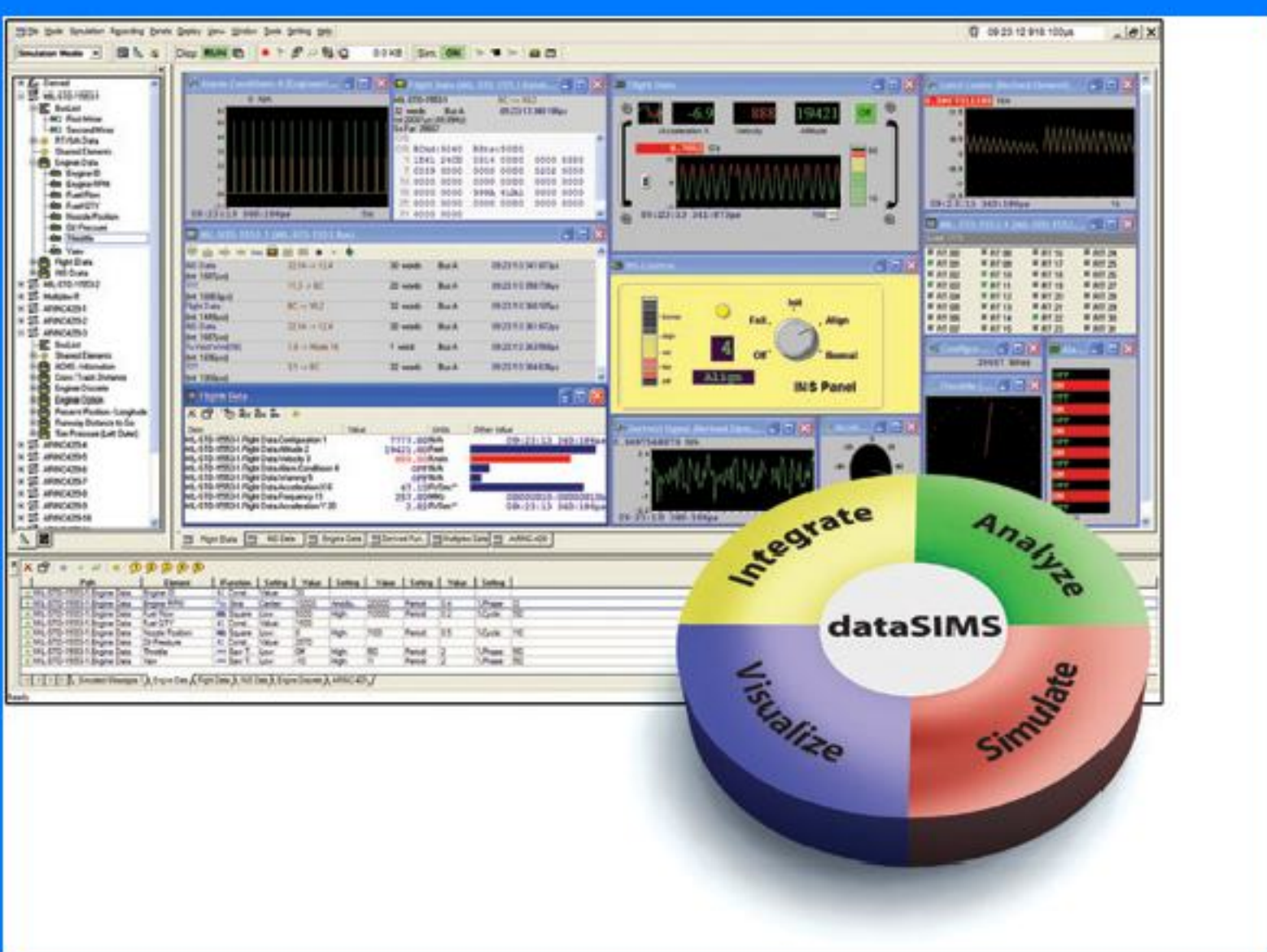
Optional Software:



Data Bus Analyzer and Monitor Software

Model: BU-69066S0-XX0

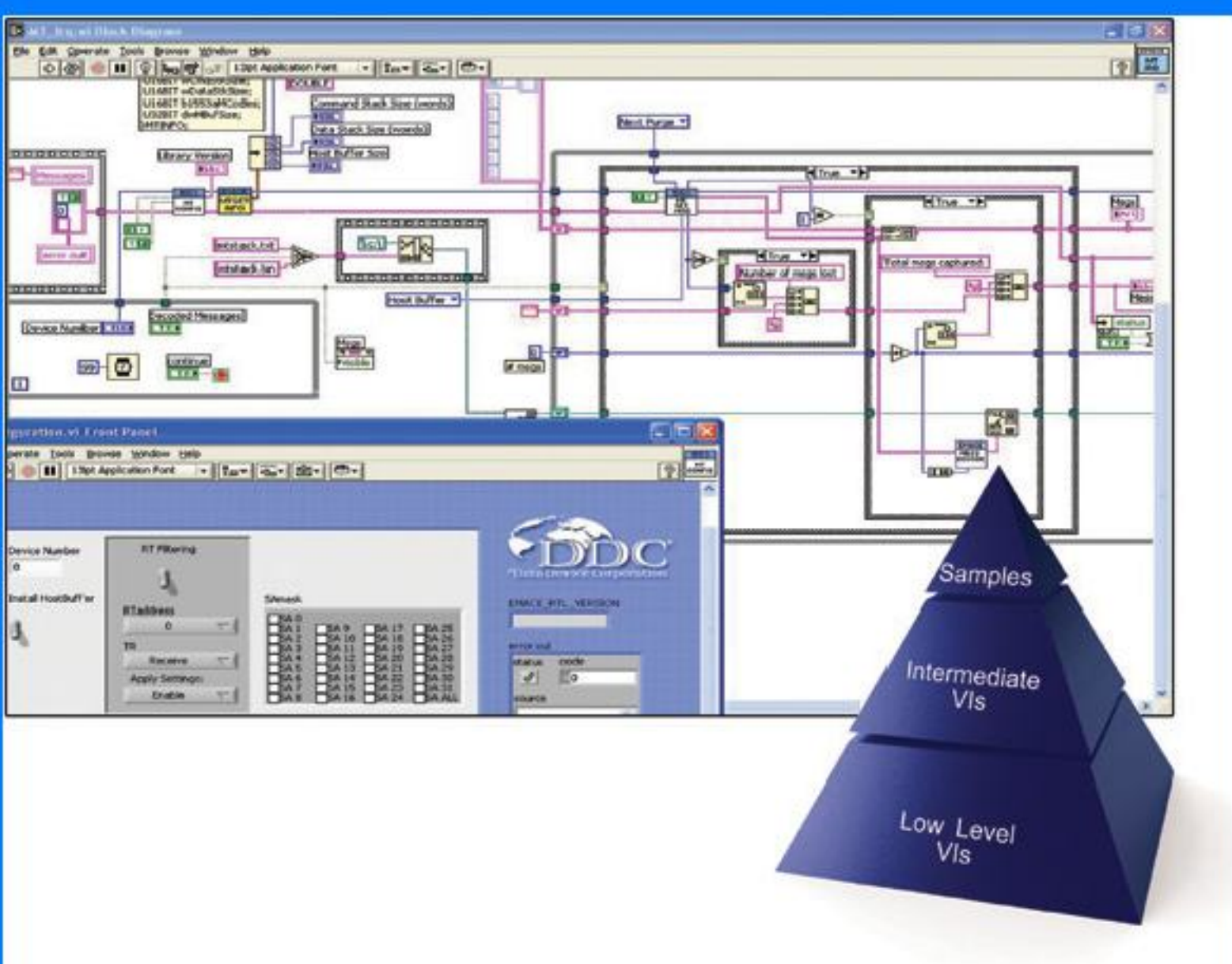
- Generate or monitor live MIL-STD-1553 data without writing any code
- Saves time and reduces development costs
- Program in minutes with one-click ANSI 'C' application source code generation
- Rapid creation and setup of custom applications



DataSIMS (Avionics Data Bus Test & Analysis Software)

Model: BU-694X4DS-64VM

- 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



LabVIEW® & LabVIEW Real-Time Support

Model: BU-69093S0-XX0

- 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



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



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