ARTISAN®
TECHNOLOGY GROUP

Your **definitive** source for quality pre-owned equipment.

**Artisan Technology Group**
(217) 352-9330 | sales@artisantg.com | artisantg.com

**Full-service, independent repair center**
with experienced engineers and technicians on staff.

**We buy your excess, underutilized, and idle equipment**
along with credit for buybacks and trade-ins.

**Custom engineering**
so your equipment works exactly as you specify.

- Critical and expedited services
- In stock / Ready-to-ship
- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

**Expert team | Trust guarantee | 100% satisfaction**

All trademarks, brand names, and brands appearing herein are the property of their respective owners.

Find the *DDC BU-67X02U* at our website: *Click HERE*

# USB Multi-I/O Test & Simulation for MIL-STD-1553/ARINC 429/ARINC 717

DDC Connectivity Power Control

## Product Brief

**Models: BU-67X02/3U, BU-67211U**




BU-67103U



BU-67X02U




BU-67211U

MIL-STD-1553
ARINC 429
ARINC 717
DISCRETE
CANbus
ACEXTREME®

Reliable and easy-to-use, DDC's USB Multi-I/O Test and Simulation Hardware series provides you with the right solution for interfacing to MIL-STD-1553, ARINC 429, ARINC 717, CANbus, Serial I/O, and/or Discrete I/O interfaces.

## Features:

| Features: | BU-67211U | BU-67X02U | BU-67103U |
|---|---|---|---|
| Rack Mountable Option | ✔ | | |
| Standard Twinax MIL-STD-1553 Rugged Connectors on Hardware | ✔ | ✔ | ✔ |
| USB Bus Powered | | ✔ | ✔ |
| Extended Temperature Range | | ✔ | |
| SF = BC/MT or Multi-RT/MT per Ch<br>MF = BC + Multi-R/T + MT per Ch | MF (2 Ch) | SF (2 Ch)<br>MF (1 Ch) | SF (2 Ch) |
| 1553/429 Bus Playback from Stored Monitor File | ✔ | ✔ | ✔ |
| Digital & Avionics (+35V) Discrete I/O and Triggering | ✔ | | |
| Real Time Intermessage Event/ Data Modification | ✔ | ✔ * | |
| 1553 Error Injection | ✔ | ✔ * | |
| Variable 1553 Voltage | ✔ | | |
| Advanced 1553 Error Sampling at 50 nS | ✔ | ✔ | ✔ |
| Programmable Direct or Transformer 1553 Coupling | ✔ | | |
| Programmable Tx/Rx ARINC 429 Ch. | ✔ | | |
| Programmable Tx/Rx ARINC 717 Ch. | ✔ | | |
| CANbus 2.0 | ✔ | | |
| Programmable RS-232/422/485 | ✔ | | |
| IRIG-B Input | ✔ | ✔ | ✔ |
| IRIG-B Output | ✔ | | |
| ACEXTREME® - Next Gen 1553 Core | ✔ | ✔ | ✔ |

* Only available on the Multi-Function model (BU-67202U).

## Benefits:

- Simplify Form Factor Selection Process with a simple USB 2.0 interface, Enabling Connection Anywhere USB Ports are Present.
- Variety of Devices
  - Ruggedized Compact Portable Units
  - Powerful Test and Simulation Units
- Standard Twinax Connectors for Quick 1553 Bus Hookup
- 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

## Applications:

- New Product Development
- System Troubleshooting
- Portable Testers
- Flight Line Diagnostics
- Flight Testing
- Software Development
- Systems Integration Labs
- Simulators
- Production Test Stands
- Automated Test Applications

**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/USB

© 2008, 2011 Data Device Corporation. All trademarks are the property of their respective owners.

# Technical Data

- 1553 Bus Monitor (MT)
  - IRIG-106 Chapter 10 Compatibility
  - Filter Based on RT Address, T/R bit, Sub-Address
  - Advanced Bit Level Error Detection to Isolate Bus Failures
  - DMA Engine for Ultra Low CPU Utilization
- 1553 Remote Terminal (RT)
  - Emulate up to 31 RT Addresses Simultaneously
  - Multiple Buffering Techniques
  - Programmable Command Illegalization
  - Programmable Busy by Sub-address
- 1553 Bus Controller (BC)
  - Streaming and Minor/Major Frame Scheduling of Messages
  - High and Low Priority Asynchronous Message Insertion
  - Modify Messages or Data while BC is running
- ARINC 429
  - High/Low Speed 429 Operation
  - FIFO or Mailbox Reception
  - FIFO, FIFO Block, or Scheduled Rate Transmission
  - Asynchronous Message Insertion
  - Label/SDI Filtering

# Ordering Information

| | Model Number | 1553 Ch. | 429 Ch. Rx | 429 Ch. Tx | 717 Ch. | Digital Discrete I/O | Avionics Discrete I/O | Serial I/O | CANbus | Temperature Range |
|---|---|---|---|---|---|---|---|---|---|---|
|  | **BU-67102U000L-CA0** | — | 4 | 2 | — | 8 | — | — | — | -40°C to +71°C (note 1) |
| | **BU-67102U100L-CA0** | 1 SF | 0 | 0 | — | 8 | — | — | — | |
| | **BU-67102U200L-CA0** | 2 SF | 4 | 2 | — | 8 | — | — | — | |
| | **BU-67202U100L-CA0** | 1 MF | 0 | 0 | — | 8 | — | — | — | |
|  | **BU-67103U000L-JL0** | — | 4 | 2 | — | 8 | — | — | — | 0°C to +55°C |
| | **BU-67103U100L-JL0** | 1 SF | 0 | 0 | — | 8 | — | — | — | |
| | **BU-67103U200L-JL0** | 2 SF | 4 | 2 | — | 8 | — | — | — | |
|  | **BU-67211U000R-JL0** | — | 8 | | 2 | 2 | 2 | 0 | 2 | |
| | **BU-67211U200R-JL0** | 2 MF | 8 | | 2 | 2 | 2 | 4 | 2 | |

Notes: 1. Component temperature: -40°C to +85°C
2. All USBs include IRIG-B input, BU-67211Ux also includes IRIG-B output.
3. SF = BC or Multi-RT with concurrent Bus Monitor per 1553 channel
MF = BC and Multi-RT with concurrent Bus Monitor per 1553 channel

Included Software:
- 1553 and 429 Software Development Kits (SDKs)
- Windows XP/Vista/7/8/10 and Linux

Contact factory for latest software compatibility with each model.

Included Accessories:
For all versions:
- USB Cable
- AC Power Adapter
- D-Connectors and Shells

X02U version also includes:
- 5 Cable Ties
- 1 Cable Tie Screw & Washer

Optional Accessories:
For the X02U version only:
- U-Shaped Mounting Bracket - P/N 5507-5606-0010

## Optional Software:

BusTRACER®

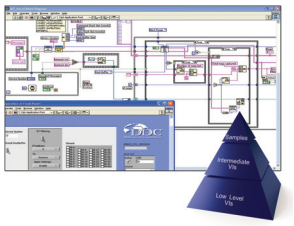


### Data Bus Analyzer and Monitor Software

- 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

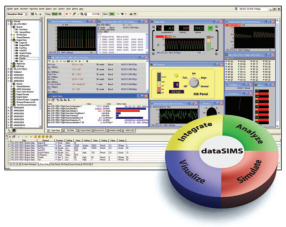
### LabVIEW® & LabVIEW Real-Time Support



- 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

### *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-69414DS-64VM

### Commercial Avionics Utilities




### Data Bus Analyzer and Data Loader Software

- Graphical ARINC 429 data bus analysis and simulation
- Advanced filtering, message scheduling, and triggering
- Graphical ARINC 615 data loader
- Software interface to load data to and from airborne computers

Model: DD-42999S0-XX0

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



The information in this Flyer 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.

For ordering assistance and technical support,
E-Mail: service@ddc-web.com
Visit: ddc-web.com Data Device Corporation
Call: HQ, N.Y., U.S.A 1-800-DDC-5757 | (631) 567-5600

| | |
|---|---|
| UK | +44-(0)1635-811140 |
| France | +33-(0)1-41-16-3424 |
| Germany | +49-(0)89-1500-12-11 |
| Japan | +81-(0)3-3814-7688 |
| Asia | +65-6489-4801 |
| India | +91 080 301 10 200 |

**Artisan Technology Group** is an independent supplier of quality pre-owned equipment

## Gold-standard solutions

Extend the life of your critical industrial, commercial, and military systems with our superior service and support.

## We buy equipment

Planning to upgrade your current equipment? Have surplus equipment taking up shelf space? We'll give it a new home.

## Learn more!

Visit us at **artisantg.com** for more info on price quotes, drivers, technical specifications, manuals, and documentation.

Artisan Scientific Corporation dba Artisan Technology Group is not an affiliate, representative, or authorized distributor for any manufacturer listed herein.

We're here to make your life easier. How can we help you today?

(217) 352-9330 | sales@artisantg.com | artisantg.com

ARTISAN® TECHNOLOGY GROUP