

USB to MIL-STD-1553 Adapter



Preliminary Product Brief

Model: BU-67111U1X0X-CA0



DDC'S small form factor USB adapter allows a dual redundant MIL-STD-1553 bus to easily be accessed from a USB connection from any small embedded system, laptop, or tablet computer. The BU-67111U1X0X is USB powered, and is based on DDC's Total-AceXtreme[®] MIL-STD-1553 BC/RT/MT architecture, to provide a light weight, small size, rugged, and reliable MIL-STD-1553-to-USB interface. The adapter meets rugged levels of shock and vibration, along with a maximum temperature range of -20°C to +60°C.

Key Features

Performance

- Small form factor USB adapter
- USB 2.0
- Powered via USB interface
- Utilizes DDC AceXtreme[®] engine

Functionality

- One dual redundant MIL-STD-1553 channel
 - Supports MIL-STD-1553A/B/C
 - BC/MT or Multi-RT/MT
- 48-bit/100ns time stamp

Environmental/Mechanical

- Temperature range: -20°C to +60°C operation (-40°C to +85°C storage)
- Weight: <1 lb.
- MIL-STD-810G
 - Shock: Method 516.7, Procedure IV
 - Vibration: Method 514.7, Procedure II
 - Altitude (12,500 feet): Method 500.6, Procedure II
 - Humidity (95%): Method 507.6, Procedure II
 - Sand & Dust: Method 510.6, Procedure I&II
 - Blowing Rain: Method 506.6, Procedure I
- Standard BJ77 triaxial connectors facilitate MIL-STD-1553 interface
- Durable plastic housing

Benefits

- Small form factor USB adapter facilitates interface between USB and a dual redundant MIL-STD-1553 bus
- Small, lightweight, and low power 1553 solution
- Small form factor with USB 2.0 interface is ideal for
 - Desktops, laptops, and tablet computers
 - Any embedded box with a USB port
- Complete hardware and software solution
 - Leverages DDC's Total-AceXtreme[®] MIL-STD-1553 BC/RT/MT architecture and DDC's software development kit (SDK) and suite of software development tools

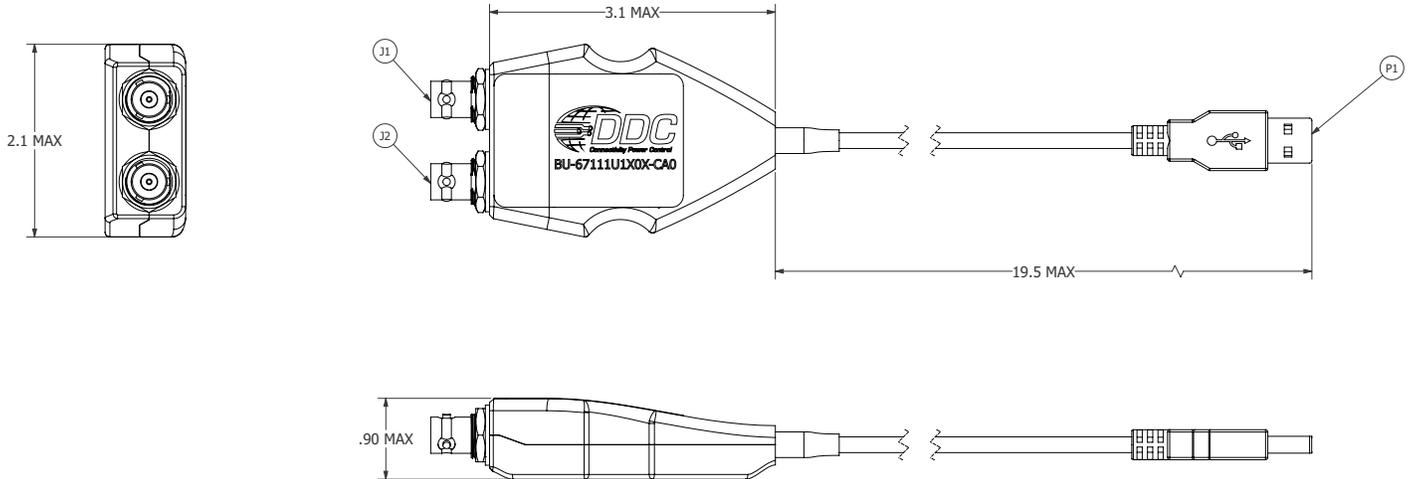
Applications

- New product development
- System troubleshooting
- Portable testers
- Flight line diagnostics
- Flight testing
- Software development
- Systems integration labs
- Simulations
- Production test stands
- Automated test applications

Custom Design Capability - 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/BU-67111U1X0X

Mechanical Drawing



Ordering Information

BU-67111U1X0X-CA0

- Operating Temperature Range:
CA0 = -20°C to +60°C Air Cooled
- Environmental Compliance:
R = RoHS
- Case Color:
0 = Camouflage Green
1 = Desert Tan
- Channel Count:
1 = MIL-STD-1553 Channel
(Dual Redundant)
- Small Form Factor USB to 1553

Included Software:

- 1553 C Software Development Kit (SDK)
- Windows 2000/XP/Vista/7, Linux, and VxWorks support

Optional Software

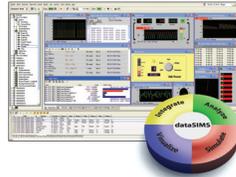
BuTRACE® Data Bus Analyzer and Monitor Software



- 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' source code generation
- Rapid creation and setup of custom applications

Model: BU-69066S0-XX0

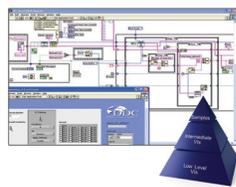
dataSIMS Avionics Data Bus Test and Analysis Software



- 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-69414DS-64VM

LabVIEW® & LabVIEW/LabWindows® 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 provided

Model: BU-69093S0-XX0



For ordering assistance and technical support,

E-Mail: service@ddc-web.com

Visit: ddc-web.com

Call: HQ, N.Y., U.S.A

UK

Germany

India

Data Device Corporation

1-800-DDC-5757 | (631) 567-5600

+44-(0)1635-811140

+49-(0)89-150012-11

+91-80-46797368



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