

AceXtreme® Bridge Device



Product Brief

Models: BU-6711XWX



- ETHERNET
 - MIL-STD-1553
 - ARINC 429
 - DISCRETE
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DDC's AceXtreme Bridge Device converts messages in real time between Ethernet, MIL-STD-1553, and ARINC-429, in any direction, without a host computer.

Key Features

- Bridge Between Ethernet, MIL-STD-1553, and/or ARINC 429
- Remote Access to 429 or 1553 Data via Ethernet
- Low Power 1GHz Intel Atom Processor
- 8 GB Solid-State Drive
- IP67 Rugged D Connectors
- 28V Power (MIL-STD-704 & MIL-STD-1275)
- MIL-STD-810 Shock, Vibration, Humidity, and Altitude Testing
- MIL-STD-461 EMC
- Expansion Site Inside: Contact DDC for Other I/O
- Bridging Software API

Benefits

- SWaP-C Optimized... Saves Installation Time and Cost
- No Host Computer Required
- Onboard Processor Enables Application Programming Flexibility
- Accomodates Large Data Buffering
- Compatible with 28V Aircraft and Ground Vehicle Power
- Simplifies Data Bus Cabling
- Turnkey Bridging Software

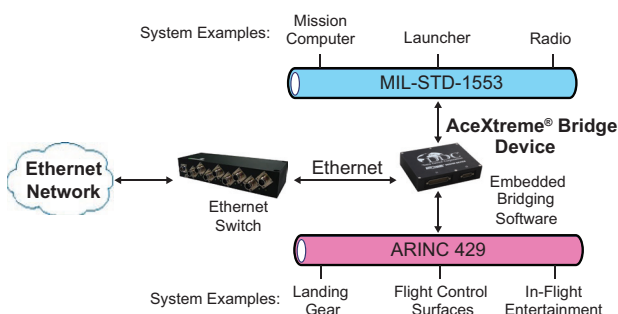
Applications

- Upgrade & Retrofit
- Protocol Conversion
- Mission Computers
- Displays
- Test & Systems Integration
- Situational Awareness
- Simulators
- Data Loading
- Data Monitoring

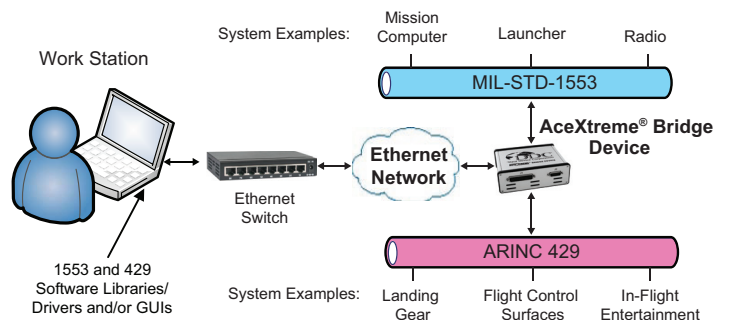
Need a Custom Solution?

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.

Protocol Conversion Mode



Remote Access Mode



For more information: www.ddc-web.com/BU-6711XWX

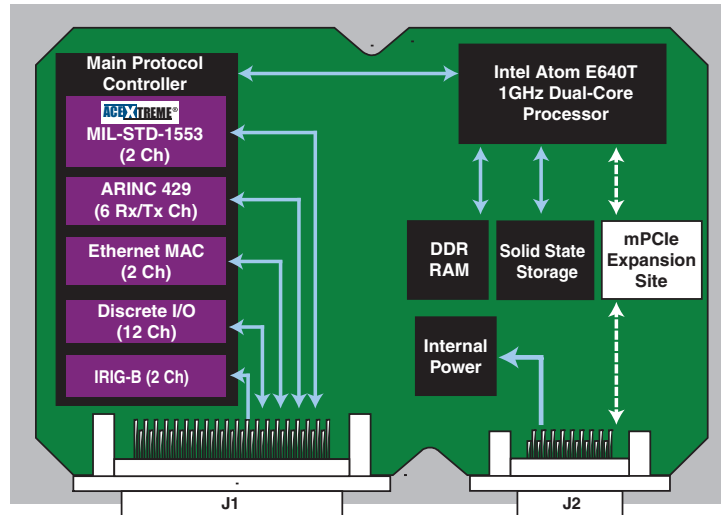
Overview

The AceXtreme® Bridge Device supports two operating modes, protocol conversion and remote access.

In **protocol conversion mode**, convert data between any of the supported protocol interfaces in real-time without a host computer. The device can be programmed to be a stand-alone protocol converter.

In **remote access mode**, a host computer will communicate with the device over Ethernet and can remotely access data from the 429 and/or 1553 databus. Software written to the DDC API is ran on the host computer and the Ethernet is used as a backplane. Users can access 1553 and 429 connections from any remote location accessible over an Ethernet network.

Block Diagram



Ordering Information

	Model Number	Channels			Op. Temp.				RoHS	Size/Weight
		Ethernet	1553	429	-40°C to +71°C	-40°C to +85°C	0°C to +55°C			
Rugged	BU-67115W000L-CC0	2	0	6	✓					6.92 in x 5.05 in x 1.49 in (176 mm x 128 mm x 37.8 mm) 35.3 oz. (1000 g)
	BU-67115W100L-CC0	2	1	0	✓					
	BU-67115W200L-CC0	2	2	0	✓					
	BU-67115W300L-CC0	2	2	6	✓					
Board	BU-67116W000L-2C0	2	0	6		✓				6.31 in x 4.20 in x 1.15 in (160 mm x 107 mm x 29.2 mm) 17.64 oz. (500 g)
	BU-67116W100L-2C0	2	1	0		✓				
	BU-67116W200L-2C0	2	2	0		✓				
	BU-67116W300L-2C0	2	2	6		✓				
Lab	BU-67119W000R-JL0	2	0	6			✓	✓		6.67 in x 5.28 in x 2.19 in (169.4 mm x 134.1 mm x 55.6 mm) 26.0 oz. (737 g)
	BU-67119W100R-JL0	2	1	0			✓	✓		
	BU-67119W200R-JL0	2	2	0			✓	✓		
	BU-67119W300R-JL0	2	2	6			✓	✓		

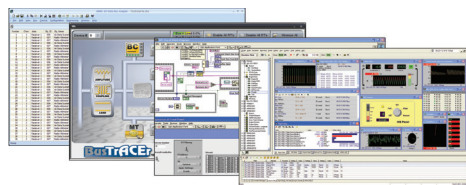
Accessories:

- Cable Assemblies*: I/O Cable: DDC-78053-1; Power Cable: DDC-78055-1; Power Supply: DDC-78164-1

*Included with the BU-67119
Optional with the BU-67115 & BU-67116

Note: All Versions of the BU-6711XWX come with 12 Discrete I/Os

Optional Software:



PROTOCOL ANALYZERS

BaSTRACE®
Data Bus Analyzer & Monitor
Model: BU-69066S0-XX0

Commercial Avionics Utilities
Data Bus Analyzer & 615 Data Loader
Model: DD-42999S0-XX0

SYSTEM LEVEL SOLUTIONS

dataSIMS
Avionics Data Bus Test & Analysis
Model: BU-694X4DS-64VM

LabVIEW® & LabVIEW/LabWindows®
Real-Time Support
Model: BU-69093S0-XX0



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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