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- ITAR-certified secure asset solutions

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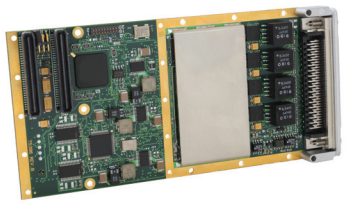
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PMC, PCI, & cPCI/PXI Cards with Up to 8 MIL-STD-1553 Channels

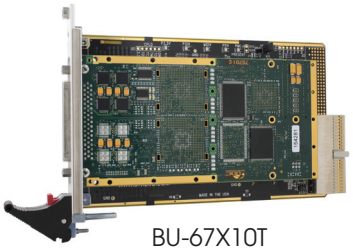
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Product Brief

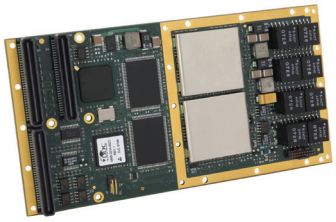
Models: BU-67X10F/M/I/T



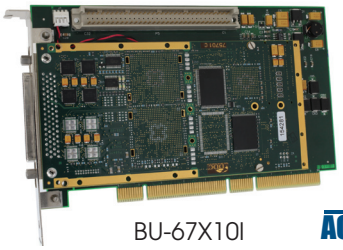
BU-67X10F



BU-67X10T



BU-67X10M



BU-67X10I

ACEXTREME®

Rugged and reliable, DDC's PMC family of embedded cards are engineered for rugged environments and can be used in conduction cooled or air cooled systems. The unique I/O mix and high channel count on a single card saves space, power, weight, and cost—making this an ideal solution for systems with limited space. The cards are also available in PCI and compact PCI/PXI form factors for test applications.

Key Features

- Up to 8 Dual Redundant MIL-STD-1553 Channels
  - Single-Function: BC/MT or Multi-RT/MT
  - Multi-Function: BC + Multi-RT + MT
  - 1553 Bus Playback on All Models
  - Supports MIL-STD-1553 A/B & MIL-STD-1760
  - Transformer Coupled 1553 Interfaces
  - BC Disable for RT Only Applications
  - Tx Inhibit for MT Only Applications
  - 2 External RT Address Inputs
- Test and Simulation Toolkit (BU-67210 series only)
  - Variable Voltage Output on Front I/O Models
  - Digital/Avionics Discrete I/O Trigger Capability
  - Real Time Intermessage Event/Data Modification
  - Error Injection
  - Intermessage Gap & RT Response Time as low as 3.5 µs
- Up to 8 Digital & 16 Avionics Discrete I/O
- IRIG-B Time Code Input/Output
- 48-bit/100ns Time Stamp
- Low Power Dissipation
- RoHS Compliant RoHS or Leaded Versions
- AceXtreme® - Latest Generation 1553 Core

Benefits

- Rugged PMC Design for Harsh Environments
- Available in PCI and cPCI/PXI Form Factors with Cable for Test Environment
- Unique I/O Mix & High Channel Count Reduces:
  - Space, Power, Weight, Cost
- Shorten Development Cycle and Reduce Risk with Automated Code Generation
- IRIG-106 Chapter 10 On Board Formatting
- On-Board DMA Engine for Low CPU/PCI Utilization

Applications

- Mission Computers
- Displays
- Digital Data Recorders
- Radar Systems/Situational Awareness
- Commercial Aerospace
- Ground Maintenance
- Systems Integration Labs
- Simulators
- Production Test Labs
- System Troubleshooting
- New Product Development

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-67210FM | www.ddc-web.com/BU-67210IT

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Overview

PMC, PCI, and cPCI/PXI Cards

The card contains up to eight dual redundant MIL-STD-1553 channels and is a perfect fit for military aerospace applications. All PMC cards are available as air cooled or conduction cooled with either front or rear I/O. The PCI and cPCI/PXI versions offer front panel I/O and include a cable to easily interface to all 1553 channels. The Multi-Function (BU-672) series includes a powerful toolkit of features for in-depth MIL-STD-1553 Testing, Simulation, and integration in addition to concurrent operation of BC and Multi-RT and MT modes.

Quick Specs

POWER DISSIPATION (75% Utilization)	MIN	TYP	MAX
BU-67110x100L (1-ch 1553)	-	2.0 W	-
BU-67110x200L (2-ch 1553)	-	2.5 W	-
BU-67110x400L (4-ch 1553)	-	4.2 W	-
THERMAL	**MIN**	**TYP**	**MAX**
PMC Operating Temperature	-40 °C	-	+85 °C
PMC Storage Temperature	-65 °C	-	+150 °C

Ordering Information

BU-67X10XXX 0 X-JL0 (PCI and 3U cPCI/PXI)

(see Note 1)

JL = 0°C to +55°C Card
R = RoHS
0 = Includes 1553 Cable
1 = No Cable Included

I/O Option	# of1553 Channels	# of Avionics Discrete I/O	# of Digital Discrete I/O
10	1	8	8
20	2	8	8
40	4	8	8
80 Note 1	8	8	8

I = PCI Card
T = 3U cPCI/PXI Card

BU-67X10FXX0X-XX0X (Front I/O PMC)

(see Note 1)

N = Acrylic Conformal Coating
U = Polyurethane Conformal Coating
(Blank) = No Conformal Coating

2A = Rugged Air Cooled (-40°C to +85°C) Note 4
3L = Air Cooled (0°C to +71°C)

L = Leaded
R = RoHS (only available with -3L option)

I/O Option	# of1553 Channels	# of Avionics Discrete I/O	# of Digital Discrete I/O
10	1	8	8
20	2	8	8
40	4	8	8
80 Note 1	8	8	8

BU-67X10MXX0X-2X0X (Rear I/O PMC)

(see Note 1)

N = Acrylic Conformal Coating
U = Polyurethane Conformal Coating
(Blank) = No Conformal Coating

A = Rugged Air Cooled (-40°C to +85°C)
C = Rugged Conduction Cooled (-40°C to +85°C)

L = Leaded

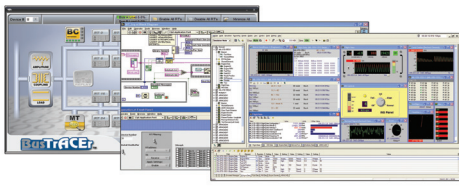
I/O Option	# of1553 Channels	# of Avionics Discrete I/O	# of Digital Discrete I/O
10	1	8	8
20	2	8	8
21	2	16	0
40	4	8	8
41	4	16	0
80 Note 1	8	8	8

Included Software Development Kits:

32-bit Windows® XP Support
32/64-bit Windows Vista/7/Server 2008/Server 2011 Support
32/64-bit Linux® Support
VxWorks Support

Notes:
1. 672 = AceXtreme Multi-Function (BC + Multi-RT + MT), not available with 8 MIL-STD-1553 Channels.
   671 = AceXtreme Single-Function (BC/MT or Multi-RT/MT)
2. All Models Include IRIG-B Input/Output
3. Only Available with Leaded Board

Optional Software:



PROTOCOL ANALYZERS

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

SYSTEM LEVEL SOLUTIONS

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

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

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



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