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TECHNOLOGY GROUP

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- In stock / Ready-to-ship
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- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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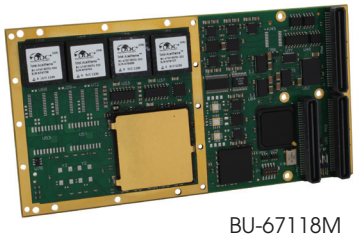
Find the *DDC BU-67118* at our website: *Click HERE*

Multi-Channel, Multi-Protocol Avionics XMC and PMC Boards

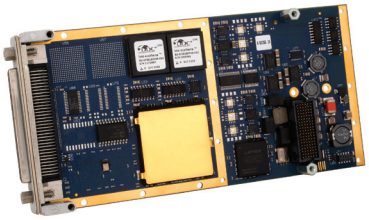
Connectivity Power Control

Product Brief

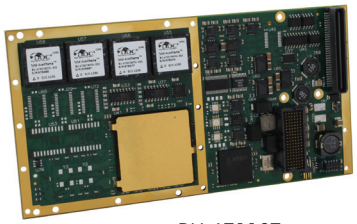
Model: BU-67118X



BU-67118M



BU-67118Y



BU-67118Z

(Front I/O and PCIe versions available)

MIL-STD-1553
ARINC 429
ARINC 717
DISCRETE
CANbus

Total-ACE XTREME On Board

DDC's Multi-Channel Multi-Protocol PMC and XMC boards utilize the world's most advanced MIL-STD-1553 technology, Total-AceXtreme®, to deliver ultra low power dissipation, high MTBF, and high performance for rugged environments. The high channel count, unique I/O mix, and high performance enables space, weight, power, and cost savings.

Key Features

Performance

- High Performance PCI-Express Interface XMC
- Low Power Dissipation
- 4KByte Memory Boundaries for Safety Critical Operating System
- Comprehensive Built-In-Self-Tests
- 4KByte Memory Boundaries for Safety Critical Operating Systems

Functionality

- Up to 4 Dual Redundant MIL-STD-1553 Channels
  - Supports MIL-STD-1553A/B and MIL-STD-1760
  - BC Disable for RT Only Applications
  - Tx Inhibit for MT Only Applications
  - IRIG-106 Chapter 10 MIL-STD-1553 MT
- Up to 20 Programmable Tx/Rx ARINC 429 Channels
  - Supports ARINC 575 & Many Other ARINC Protocols
  - Full Line Rate on All Channels Simultaneously
  - Tx Inhibit for ARINC 429 Rx Only Applications
  - Programmable ARINC 429 Speed
- Up to 2 Programmable Tx/Rx ARINC 717 Channels
- Up to 2 CANbus 2.0/ARINC 825 Channels
  - CANbus Off-load with Processor On Board
- Up to 8 Programmable RS-232/422/485 Channels
  - Asynchronous Communication on All Channels
  - Synchronous Communication on up to 2 Channels
- Up to 10 Avionics/Digital Discrete I/O
- 48-bit/100ns Time Stamp
- IRIG-B Input

Environmental

- Commercial to Extended Temperature Range: -40°C to +85°C Operation
- On Board Thermal Monitoring

Benefits

- Rugged PMC or XMC Designed for Harsh Environments
- SWaP-C Savings with Unique I/O Mix & High Channel Count
  - Reduces Space, Weight, Power, and Cost
  - One Multi-I/O Boards Replaces Several Single I/O Boards
- On-Board DMA Engine for Low CPU Utilization
- IRIG-106 Chapter 10, Tx Inhibit, and ARINC 717 Ideal for Flight Data Recorders

Applications

- Mission Computers
- Displays and LRUs
- Digital Data Recorders
- Radar Systems/Situational Awareness
- Commercial Aerospace
- Flyable Avionics/UAVs
- Data Loading
- Data Monitoring
- Ground Vehicles

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/BU-67118x

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Overview

DDC's PMC and XMC boards are ideally suited to meet rugged requirements in all military or commercial applications. The multiple I/O configurations allows one card to be qualified once and can be re-used on many different types of applications. The board is designed for harsh environments and can be used in either conduction or air cooled applications. The card is designed to meet or exceed vibration requirements as specified in ANSI/VITA 47 for class V3 in conduction cooled applications and class V2 in air-cooled applications. It is also designed to meet the shock requirements specified in ANSI/VITA 47 for class OS2.

The board can operate from -40°C to +85°C at the thermal rail without any limitations on MIL-STD-1553 or ARINC-429 transmitter duty cycles.

These boards utilize DDC's Total-AceXtreme®, offering reduced power dissipation, increased MTBF, and increased performance, due to the unique ASICs inside Total-AceXtreme.

Quick Specs

POWER DISSIPATION (in Watts)	Bus Utilization			
	Idle	25%	50%	100%
BU-67118Mx - Base	5.67			
1553 Per Ch.	0	0.2	0.4	0.8
429 Per Ch.	0	57.2	88.2	155.2
BU-67118Zx - Base	7.45			
1553 Per Ch.	0	0.2	0.5	0.97
429 Per Ch.	0	47	86	150

THERMAL	MIN	TYP	MAX
Operating Temperature	-40 °C	-	+85 °C
Storage Temperature	-55 °C	-	+125 °C

Included Software:
- 1553 Software Development Kit (SDK)
- ARINC 429 Software Development Kit (SDK)
- 32/64-bit Linux, VxWorks, and Integrity Drivers
- 32-bit Windows XP
- 32/64-bit Windows Vista/7/8/10 Drivers

Ordering Information

BU-67118X XXXX-2X0X

Additional Processing:
- N = Acrylic Conformal Coating
- U = Polyurethane Conformal Coating
- Blank = No Conformal Coating

Cooling Method/Ruggedness:
- 2A = -40°C to +85°C Air Cooled Board
- 2C = -40°C to +85°C Conduction Cooled Board

Lead Free Option:
- L = Contains Lead
- R = RoHS

Rear I/O Connector Modifier:
- 0 = Pn4 for PMC/P16 for XMC
- M = Pn4 for XMC (not available with PMC)

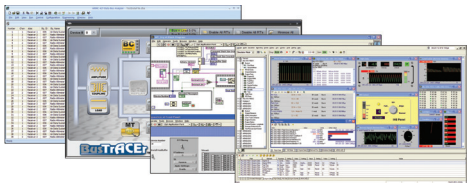
Off-the-Shelf I/O Options	Number of Channels: 1553 (RT Boot)	429	717	Serial (Synch)	CANbus	Discrete	IRIG-B Input
00	0	10	2	4 (1)	2	10	1
10	0	20	2	2	2	6	1
20	2 (1)	0	0	8 (2)	1	6	1
30	4 (1)	0	0	8 (1)	0	6	1
40	2 (1)	10	2	4 (1)	1	6	1
50	4 (1)	18	2	0	0	6	1
Modified I/O Options	Contact factory for modified channel configurations shown above.						

Form Factor:
- G = Rear I/O XMC (VITA 61, XMC 2.0 compliant)
- K = PCI-Express Card
- M = Rear I/O PMC Card
- Y = Front I/O XMC Card
- Z = Rear I/O XMC Card

Included Accessories:
- Front I/O Model Includes Mating Connector and Shell

Optional Accessories:
- DDC-75530-7 Cable for BU-67112Y1/2
- DDC-75530-6 Cable for BU-67112Y4
- DDC-75767-1 Cable for BU-67112Y8
- Contact Factory for Front 110 Cable Options

Optional Software:



PROTOCOL ANALYZERS

BusTrACEr®
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® & LabWindows® Support
Model: BU-69093S0-XX0

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



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