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TECHNOLOGY GROUP

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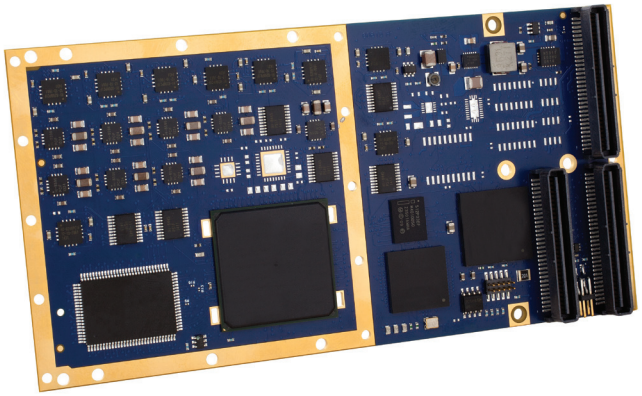
Find the *DDC DD-40002* at our website: ***Click HERE***

Rugged ARINC 429/717 PMC/XMC

Connectivity Power Control

Product Brief

Model: DD-40002X



ARINC 429
ARINC 717
CANbus
DISCRETE

DDC's cost-optimized and scalable, high-density 32 channel ARINC PMC and XMC boards offer advanced functionality, including full built-in-test and programmable interrupt capabilities, while providing high MTBF and performance for rugged flight-ready environments.

Key Features

Functionality

- 16 Rx Only ARINC 429 Channels
- 16 Prog. Tx/Rx ARINC 429 Channels
  - Up to 1 Prog. Tx/Rx ARINC 717 Channels
  - Up to 1 CANbus 2.0/ARINC 485 Channel
  - Up to 8 Avionics Discrete I/O
  - IRIG-B Input & Output (160 & 161 Versions Only)
- 3V or 5V Configurations
- 48-bit/100ns Time Tag
- Programmable Speed Per Channel (500bps - 200Kbps)
- DMA Engine for Ultra Low CPU & PCI/PCIe Utilization
- Real Time Asynchronous Message Insertion
- Real Time Data Modification
- Fully Independent Channel Operation
- FIFO or Mailbox Rx Methods
- Label/SDI Filtering Per Channel
- Onboard Hardware Scheduler
- Rear I/O PMC/XMC Boards

Environmental

- Commercial to Extended Temperature Range: -40°C to +85°C Operation
- Rugged and Air Cooled Versions Available
- RoHS Compliant

Benefits

- Programmable and Fixed Tx/Rx ARINC Channels
  - Provides Complete Flexibility to Your Specific Channel Configuration
  - Facilitate Hardware In-the-Loop Testing and Integration
  - Cost-optimized and Scalable Configurations
- Advanced Functionality
  - Programmable Interrupts
  - Extensive Built-In-Test Capability
  - Error Correcting Code (ECC) Memory Prevents Internal Data Corruption
- Efficiency
  - DMA Engine for Ultra Low CPU & PCI/PCIe Utilization
  - Continuous Built-In-Test (CBIT) Reduces Reliance on External Test Equipment
- Reliability
  - High MTBF

Applications

- Commercial Aerospace
- In-Flight Entertainment
- Mission Computers
- Digital Data Recorder
- Data Loading
- Data Monitoring

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/DD-40002X

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Overview

DDC's PMC and XMC boards are designed for high-reliability and performance in rugged military and commercial environments. The board is available in conduction or air cooled configurations, and meets or exceeds 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. Offering high MTBF reliability and performance, the board operates over the full -40°C to +85°C range, at the thermal rail, without any limitations on ARINC 429 transmitter duty cycles.

Quick Specs

POWER DISSIPATION (in Watts)	Bus Utilization			
	Idle/MT	25%	50%	75%
DD-40002X	—	—	—	2.97
Contact DDC for complete power dissipation specifications				

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

Ordering Information

DD-40002X XXX R-2X0

Operating Temperature:
2C0 = -40°C to +85°C Conduction Cooled
2A0 = -40°C to +85°C Air Cooled

I/O* Option	# of Channels			IRIG-B In & Out	CANbus	Power (V)
	429	717	Discrete			
160	16	1	8	✓	1	3
161	16	1	8	✓	1	5
320	32	0	0	—	—	3
321	32	0	0	—	—	5

*Contact Factory for custom channel configurations

Card Type:
M = Rear I/O PMC Card
Z = Rear I/O XMC Card (160 & 161 Options Only)

Included Software Development Kits:

- 32-bit Windows® XP Support
- 32/64-bit Windows Vista/7/8/10/Server 2008/Server 2011 Support
- .NET Support Available - Contact Factory
- 32/64-bit Linux® Support
- VxWorks Support - Contact Factory
- Integrity Support

Optional Software:

Commercial Avionics Utilities

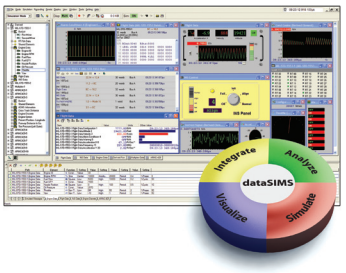


Model: DD-42999S0-XX0

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

dataSIMS

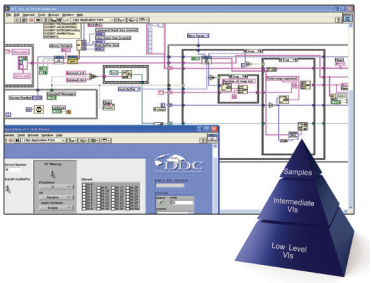
Avionics Data Bus Test & Analysis Software



Model: BU-69414DS-64VM

- 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

LabVIEW® & LabVIEW Real-Time Support



Model: BU-69093S0-XX0

- 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

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



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