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- Leasing / Rentals / Demos
- ITAR-certified secure asset solutions

Expert team | Trust guarantee | 100% satisfaction

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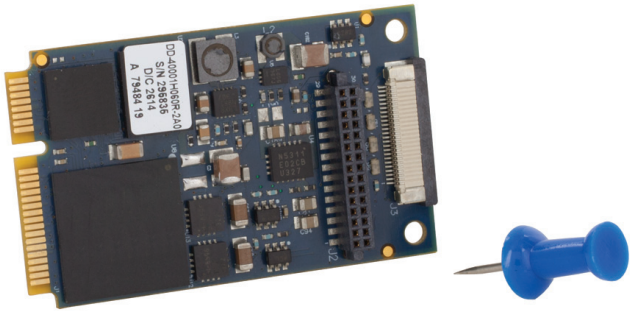
Find the *DDC DD-40001H060* at our website: *Click HERE*

6 Channel ARINC 429 & ARINC 717 Small Form Factor Mini-PCIe Board

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Product Brief

Model: DD-40001H060



ARINC 429
ARINC 717
DISCRETE
ACEXTREME®

All of the functionality of our full sized ARINC 429 boards, in a small mini-PCIe form factor, with six ARINC 429/717 channels and DDC's most advanced ARINC 429 Multi-I/O AceXtreme® architecture.

Key Features

Performance

- Low Power
- On Board DMA Engine
- On Board Hardware Scheduler
- Autonomous Data Repeating/Polluting

Functionality

- 6 ARINC 429 Channels
  - (2) ARINC 429 Receive Channels
  - (4) Transmit/Receive (Tx/Rx) ARINC 429 Channels, (2) can be Programmed as Tx/Rx ARINC 717
- Programmable Speed Per Channel (500bps - 200Kbps)
- Full Error Detection and Injection Per Message
  - Variable Inter-message Bit Gap from 1 to 32K Bits
  - Variable ARINC Message Length from 2 to 33 Bits
  - Parity Selection
- Real Time Asynchronous Message Insertion
- Real Time Data Modification
- Fully Independent Channel Operation
- FIFO or Mailbox Rx Methods
- Label/SDI Filtering Per Channel
- 48-Bit/100ns Time Stamp
- IRIG-B Time Input

Environmental

- Commercial to Extended Temperature Range: -40°C to +85°C Operation
- Shock and Vibration Tested
- Temperature-Humidity Tested
- Salt Fog Tested
- Conformal Coating Options Available

Mechanicals

- PCI Express Mini Card Form Factor
  - 30.00 mm x 50.95 mm (1.18 in x 2.01 in)
- RoHS Compliant RoHS or Leaded Versions

Benefits

- Complete Hardware and Software Solution
- Enables ARINC 429 and ARINC 717 to be Added to Any System
- Suitable for Both Embedded and Portable Applications
- Save Time and Reduce Cost
  - Common Test/Embedded API for Rapid Prototyping with Less Programming Time
- Efficient DMA Engine Means Ultra Low CPU and PCI/PCIe Utilization of the Host System

Applications

- Rugged Small Embedded Systems
- Laptops or Tablets
- Bus Troubleshooting
- Diagnostic Systems
- Hand Held Test Equipment
- Small Displays

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/DD-40001H

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Printed on recycled paper.

Overview

The standard full-size (F2) PCI Express Mini Card is 30.00 mm x 50.95 mm (1.18 in x 2.01 in) and can meet rugged levels of shock and vibration along with a temperature range of -40°C to +85°C. The board offers two types of I/O connectors, allowing the user to select the most applicable connector for each application.

Quick Specs

THERMAL	MIN	TYP	MAX
Operating Temperature	-40 °C	-	+85 °C
Storage Temperature	-55 °C	-	+105 °C

POWER DISSIPATION	Tx Duty Cycle	
	Idle / Monitor	100%
DD-40001H060	1.52 W	2 W

DIMENSIONS	TYP
DD-40001H060	30.00 x 50.95 mm
	(1.18 x 2.01 in)

Ordering Information

DD-40001H060X-2A0X

- **N** = Acrylic Conformal Coating
  U = Polyurethane Conformal Coating
  Blank = No Conformal Coating
- **L** = Leaded
  R = RoHS
- **060** = (6) ARINC 429 Channels:
  (2) Rx ARINC 429,
  (4) Tx/Rx ARINC 429 with (2) that can be programmed as Tx/Rx ARINC 717
- Standard PCI Express Mini Board

Included Software:

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

Optional Cable:

- Break Out Cable (P/N: DDC-79555-1)

Optional Software:

Commercial Avionics Utilities

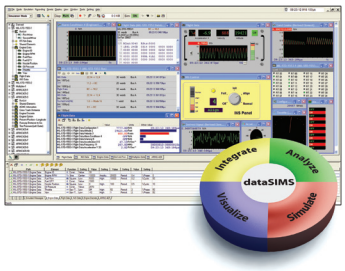


Model: DD-42999S0-XX0

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

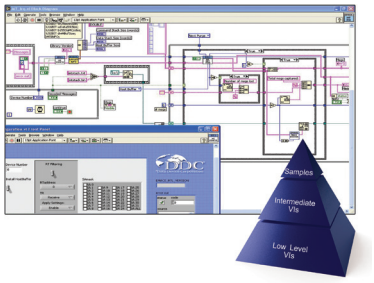
Avionics Data Bus Test & Analysis Software



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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