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Find the *DDC DD-42912M* at our website: *Click HERE*

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ARINC 429 PCMCIA Card

MODEL: DD-42912/24M3-300



FEATURES

- Type II PCMCIA 2.10 Compatible Card
- Up to 2 Transmitters and 4 Receivers
- Up to 2 General Purpose Discrete Outputs
- Supports High-Speed and Low-Speed data rates
- Synchronous and Asynchronous Transmission Methods
- Receive Label/SDI Data Filtering and Data Time Stamping
- Multiple Reception Methods
- Drivers and Run-Time Libraries for Windows® 9x/2000/XP, Windows NT®, and Linux, Including LabVIEW™ and LabWindows™/CVI Support
- WinPanel GUI Software Application Included
- Optional Commercial Avionics Utilities 32-bit Software Suite
- Optional *dataMARS/dataSIMS* 32-bit Monitoring and Simulation Software

DESCRIPTION

The DD-42912M3-300 and DD-42924M3-300 are two versions of a high density, Type II PCMCIA card for interfacing with an ARINC 429 data bus. The DD-42912M3-300 version features one transmit channel, two receive channels, and two discrete outputs; while the DD-42924M3-300 contains two transmit channels, four receive channels, and one discrete output. The card can be used as a data source for simulating or data receiver for analyzing data on a bus. With excellent transfer reliability, the card provides scheduled and FIFO transmissions, receive data filtering and time stamping, and FIFO and mailbox reception modes.

DD-42912M3-300/DD-42924M3-300 software supports all modes of operation and includes 'C', LabVIEW and LabWindows/CVI programming libraries. An optional Commercial Avionics Utilities Suite, with an ARINC 429 Data Bus Analyzer and ARINC 615 Data Loader, is also available. The WinPanel GUI allows users to transmit and receive data onto a bus without developing software. Optional *dataMARS* software offers powerful monitoring and extensive post analysis capabilities. Another optional software package, *dataSIMS*, adds simulation capability.

APPLICATIONS

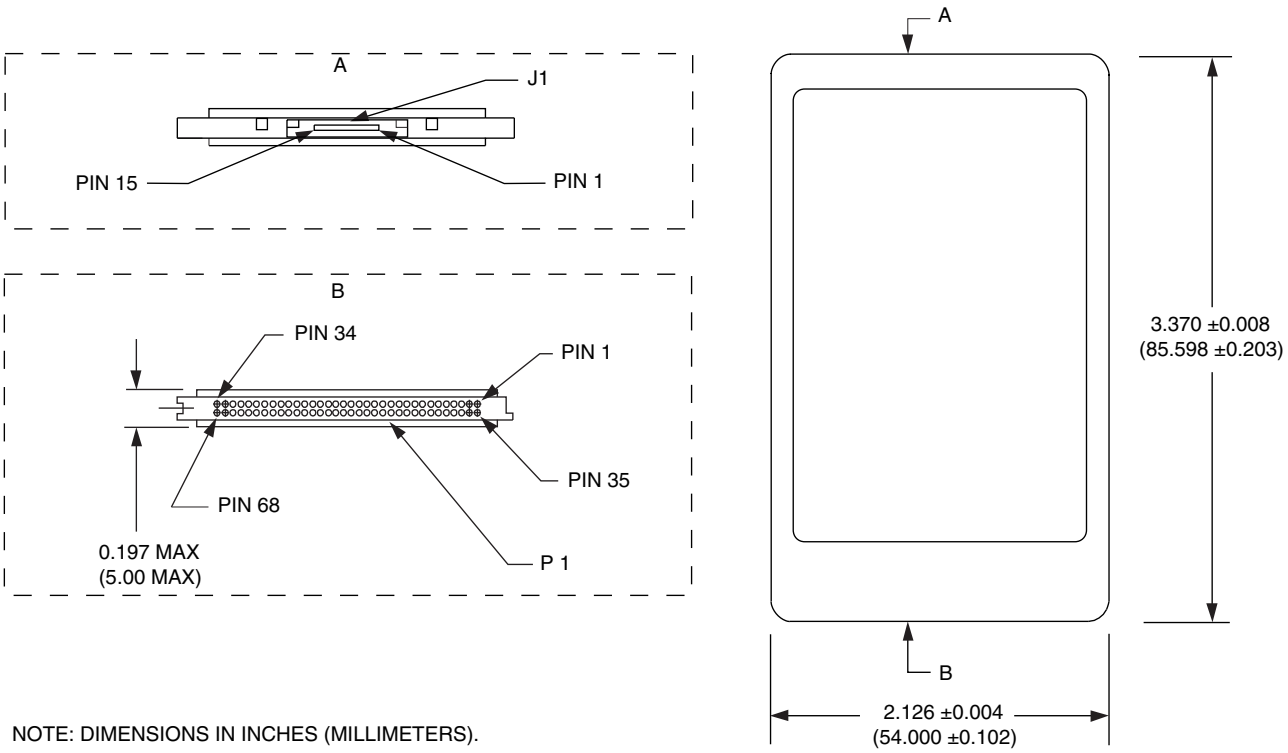
The DD-42912M3-300/DD-42924M3-300 is designed for avionics applications including: simulating and testing new systems prior to use with actual flight systems, in-lab end-item testing, and onboard testing via portable PC.



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DD-42912-24M3 Mechanical Outline

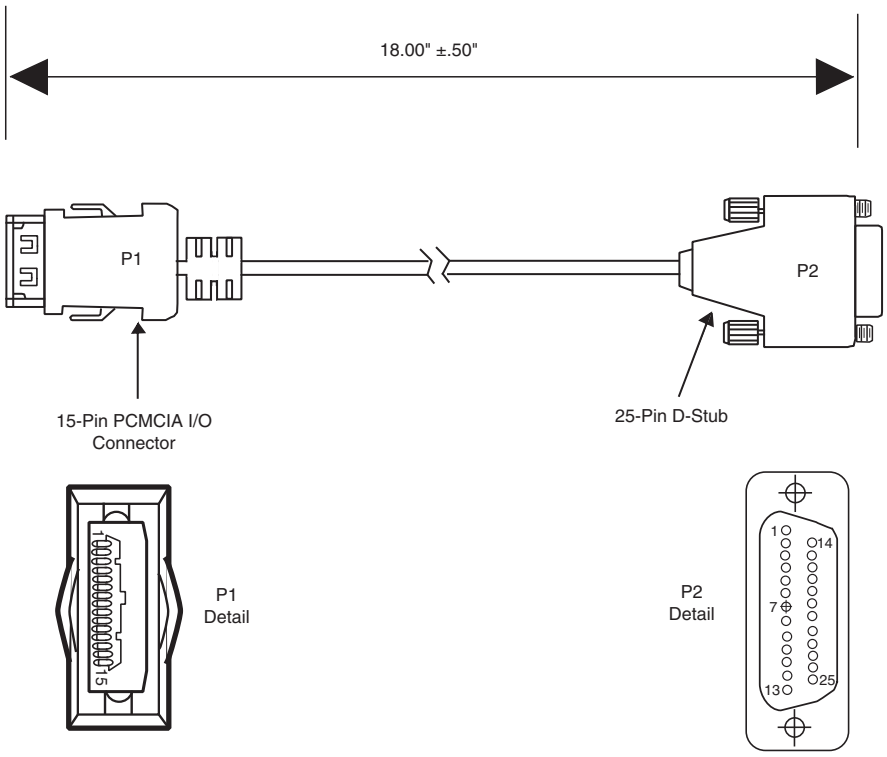
Figure 1



NOTE: DIMENSIONS IN INCHES (MILLIMETERS).

Card Setup Menu Screens

Figure 2



CARD and SOFTWARE CAPABILITIES

Transmit Data Options
- Scheduled Data
- Instant Data
- File Data

Received Data Options
- FIFO
- "Mailbox"
- Filtering

Receive FIFO plus 128 X 32 RAM

Timestamp data

Filter unwanted data by label/SDI combinations

Convert data to engineering units with the optional ARINC 429 Data Bus Analyzer

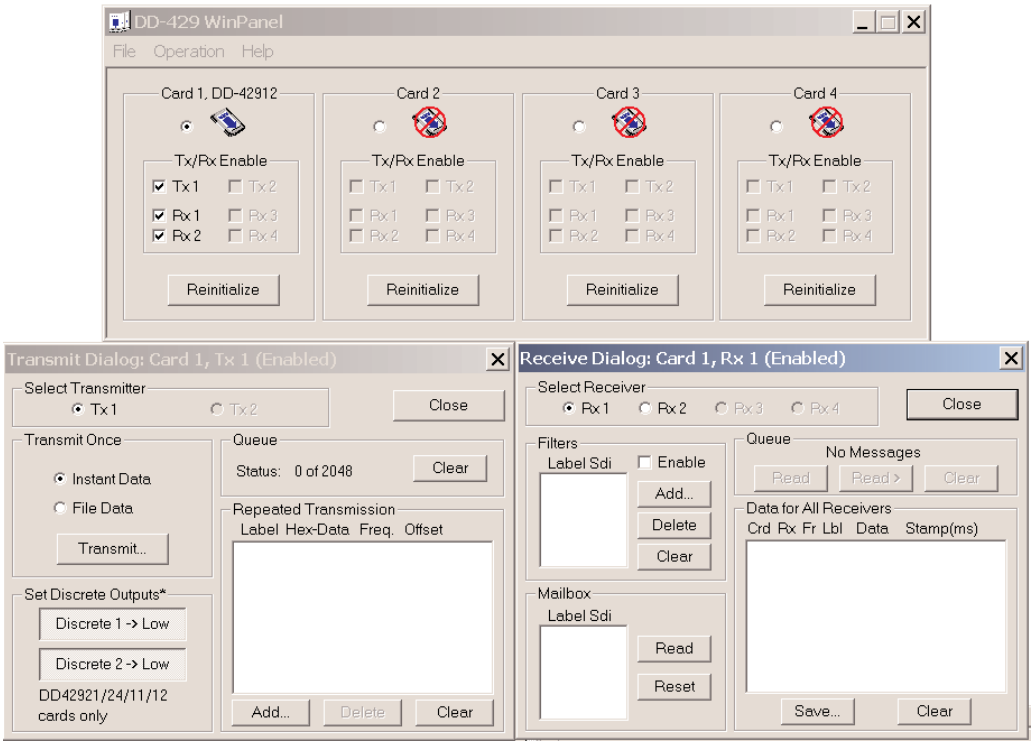
Interrupts
- Sent Data
- Received Data
- Errors

Discrete Outputs

Software
- Support for Windows 9X/NT/2000, LabVIEW and LabWindows/CVI
- High-Level API
- ARINC 429 Card Manager
- Windows Virtual Control Panel Menu
- Demonstration Software
- Diagnostic Software

Graphical WinPanel Application

Figure 3



Chan	Eq. ID	Eq. Name	Label	SDI	Parity	Abs. Time	Rel. Time	Type	Parameter Name	Value	Unit
1	005	Attitude and Heading Ref. System	012	00	O	0.0 msec	0.0 msec	BCD	Ground Speed	0	Knots
1	005	Attitude and Heading Ref. System	015	00	O	0.0 msec	0.0 msec	BCD	Wind Speed	0	Knots
2	0ca	Brake Temperature Monitor Unit	171	00	O	0.0 msec	0.0 msec	BNR	Mfr-Specific Status	Co... Ca...	
2	0ca	Brake Temperature Monitor Unit	171	00	O	0.0 msec	0.0 msec	BNR	Mfr-Specific Status	Co... Ca...	
1	005	Attitude and Heading Ref. System	015	00	O	0.0 msec	0.0 msec	BCD	Wind Speed	2	Knots

Specifications

PARAMETER	VALUE		UNITS
ELECTRICAL CHARACTERISTICS			
Nominal data rates	12.5 or 100		kHz
Expected bus impedance	75		ohms
Time Tag Resolution	1		ms
Operating Voltage	5 ± 10%	Vdc	
Maximum operating current with no transmitters in use	50		mA
Maximum operating current with one transmitter in use	120		mA
ENVIRONMENTAL CHARACTERISTICS			
Operating Temperature: (up to 95% relative humidity, non-condensing)	0 to 55		°C
Storage Temperature (at no more than 99% relative humidity, non- condensing)	-40° to 85		°C
PHYSICAL CHARACTERISTICS			
Standard Type II PCMCIA Card	3.370 x 2.126 x .197 (85.6 x 54.0 x 5.0)		in (mm)
I/O Connector	DB-25F		
Weight	2.8 (80)		oz (g)

Ordering Information

DD-429 XR M3 - X 0 0

- **Test Criteria**
  0 = 0 Standard Testing
- **Process Requirements**
  0 = Standard DDC Processing
- **Temperature Range**
  3 = 0 to +55° C
- **Card Type**
  M3 = PCMCIA Card
- **Configuration**
  X = Number of transmitters (1 or 2)
  R = Number of receivers 2 or 4
  Valid Combinations
  12 = 1 Transmitter, 2 Receivers
  24 = 2 Transmitters, 4 Receivers
- **Base Model Number**
  DDC ARINC 429 TYPE II PCMCIA Card

Included Software

DD-42950S0 - API library and drivers for Windows 95/98/2000, and Windows NT, LabVIEW, and LabWindows CVI

DD-42950S1 - Software Drivers and `C´ API Library for Linux

Optional 32-bit GUI Software

DD-42999S0 - Commercial Avionics Utilities Software Suite for Windows 9x/2000/XP, and Windows NT

Includes:
- ARINC 429 Data Bus Analyzer
- ARINC 615 Data Loader

BU-69300X - *dataMARS/dataSIMS* Software for Windows 9x/2000/XP and Windows NT

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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DATA DEVICE CORPORATION REGISTERED TO ISO 9001:2000 FILE NO. A5976

REV 2 - 11/11

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