

# DAS-429PCMCIA/RT10 & /RT6D4

The DAS-429PCMCIA/RT10 and the DAS-429PCMCIA/RT6D4 are ARINC 429 multichannel interface cards for PCMCIA systems. The DAS-429PCMCIA/RT6D4 has additional Discrete I/Os. The cards comply with the Personal Computer Memory Card International Association (PCMCIA Release 2.1) standard, including Plug and Play. The cards' small size and suitability for PCMCIA compatible notebook computers with Type II slots make them a complete solution for developing and testing ARINC 429 interfaces and for performing system simulation of the ARINC 429 bus, both in the lab and in the field.

## General Features

- ◆ RT10:
  - 6 ARINC 429 channels configurable as Tx or Rx
  - 4 ARINC 429 Rx-only channels
- ◆ RT6D4:
  - 6 ARINC 429 channels configurable as Tx or Rx
  - 4 Discrete I/Os configurable as input or output
- ◆ Memory Mapped, 64K x 8 dual-port RAM
- ◆ Programmable per channel:
  - Buffer size, Bit rate, Parity
- ◆ Programmable hardware output trigger
- ◆ Interrupt and polling modes
- ◆ PCMCIA Type II PC card (Plug and Play)
- ◆ Ruggedized cable connection



## ARINC 429 Transmit Channel

- ◆ Three transmit modes:
  - One-shot, N-times, Loop
- ◆ Programmable gap time between words/blocks
- ◆ Error injection per block:
  - Bit Count Hi/Lo, Sync Time, Stretch Bit, Bit Rate, Parity

## ARINC 429 Receive Channel

- ◆ Three receive modes:
  - Look-up table
  - Sequential per channel
  - Sequential merge
- ◆ Word status tagging
- ◆ 32-bit word Time Tagging
- ◆ Label/data filtering
- ◆ Start triggers
- ◆ Receive error count per channel
- ◆ Receive count interval trigger
- ◆ Error detection per word:
  - Bit Count, Sync Time, Parity, Bit Coding

## Discrete Input

- ◆ Software selectable voltage threshold:
  - TTL 0 – 5V or Avionics 0 – 32V
- ◆ Programmable trigger mask
- ◆ Interrupt on changing input

## Discrete Output

- ◆ Open collector outputs (0 – 32 V)
- ◆ Drive capability up to 100mA sink current per discrete

## Physical Characteristics

- ◆ Dimensions: 86mm x 54mm x 5mm (PCMCIA type II)
- ◆ Weight: 59 g

## Operation Environment

- ◆ Temperature: 0°–70°C standard temperature  
-40° to +85°C extended temp. (optional)
- ◆ Humidity: 5%–90% noncondensing

## Host Interface

- ◆ PCMCIA compliance: PCMCIA release 2.1
- ◆ Memory space occupied: 64 KB Common Memory  
4 KB Attribute memory
- ◆ Power: 5V @ 860mA (6 Tx)

## Software Support

- ◆ C drivers with source code
- ◆ Mystic software for Windows
- ◆ Exalt Plus: Excalibur Analysis Laboratory Tools (optional)
- ◆ Additional software may be available on our website

## Ordering Information

- ◆ **DAS-429PCMCIA/RT10-R**  
6 programmable ARINC 429 channels  
4 receive-only ARINC 429 channels  
With hard-wired cable connection
- ◆ **DAS-429PCMCIA/RT6D4-R**  
6 programmable ARINC 429 channels  
4 programmable Discrete I/O channels  
With hard-wired cable connection
- ◆ Additional Options:
  - E Extended temperature card



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These specifications are subject to change without notification

311 Meacham Ave ♦ Elmont NY 11003  
Tel: [516] 327-000 / Fax: [516] 327-4645  
e-mail: [excalibur@mil-1553.com](mailto:excalibur@mil-1553.com)  
website: [www.mil-1553.com](http://www.mil-1553.com)

