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DAS-429VME/Mx

The DAS-429VME/Mx is an ARINC-429 test and simulation card for VME and VXI hosts intended for applications requiring a large number of channels. The DAS-429VME/Mx may be ordered with up to 8 ARINC-429 interface modules, each containing 4 receive and 2 transmit channels, for a maximum of 48 channels. The card provides a perfect solution for developing and testing ARINC-429 interfaces and for performing system simulation of the ARINC-429 bus. All control registers and data blocks can be accessed directly in real time and a 32 bit processor allotted to each 6 channel module reduces the need for host intervention during transmission and reception. The receive channels support a variety of data storage modes. In addition, 'LABELS' may be filtered and status and time tag information may be appended to each incoming data word. The transmit channels operate via an instruction stack which allows scheduling of data transmission. The DAS-429VME/Mx is supplied with C drivers, including source code. A C size version of this product, the DAS-429VXI/Mx, is also available.

Specifications

General Specifications

- Supports up to 48 ARINC-429 Channels (32 Rx and 16 Tx)
- Modular Design
- 16K x 16 Dual Port RAM on each 6 Channel Module
- 32 Bit Processor on each 6 Channel Module
- Programmable 12.5/100 KHZ Bit Rate
- Programmable Interrupts

Transmit Channels

- Programmable Even/Odd Parity
- Programmable Interword Gap
- Selectable Transmission Modes: One Shot, Loop, and N-Times

Receive Channels

- Selectable Reception Modes: Sequential, and Look-Up Table
- Supports Merging of Data from Receive Channels
- Label Filtering
- Start Storage on Receipt of Trigger
- 32 Bit Time Tag

Host Interface

Physical Characteristics

- Dimensions 160mm x 233mm (B Size) or
- 340mm x 233mm (C Size, including RFI/EMI shield)
- Weight (VME/Mx) 275 grams

Operating Environment

- Temperature 0 - 45° C
- Humidity 5% - 90% Noncondensing
- MTBF (VME/M2) 47,226hrs at 25° C, G_F

Software Support

- C Drivers with source code

Ordering Information

- DAS-429VME/Mx Modular ARINC-429 Interface for VME (B Size)
- DAS-429VXI/Mx Modular ARINC-429 Interface for VXI (C Size)
- M429R4T2 6 Channel ARINC-429 Module (for field upgrade)

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- VME Compliance Slave A16, A24/A32: D8/D16
- Memory Space Occupied 16K x 16
- Interrupts IRQ*1-7
- Power (/M2) +5V ± 5% @ 1.45A
- +12 ± 5% @ 180mA
- -12 ± 5% @ 180 mA

Notes:

- 'x' (1-8) specifies the number of ARINC-429 Modules required.

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