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Find the *Excalibur Systems M4KCAN4* at our website: ***Click HERE***

M4KCAN

AVIONICS COMMUNICATION MODULE

The M4KCAN is an intelligent serial communications interface module for the multimode, multiprotocol Excalibur 4000 family of carrier boards. The M4KCAN provides a complete solution for developing and testing CAN interfaces and performing system simulation of the CAN bus. It is a highly integrated module that performs serial communication according to the CAN protocol.

Each module of the M4KCAN contains up to 6 channels each containing 256 bytes of dual-port RAM for Data Blocks and control registers. All Data Blocks and control registers are memory mapped, and may be accessed in real-time.

The CAN protocol uses a multi-master (contention based) bus configuration for the transfer of "communication objects" between nodes of the network. This multi-master bus is also referred to as CSMA/CR or Carrier Sense, Multiple Access, with Collision Resolution. The M4KCAN performs all serial communication functions such as transmission and reception of messages, message filtering, transmit search, and interrupt search with minimal interaction from the user.



General Features

- Up to 6 independent CAN channels
- Realtime operation
- Extended Temperature range available: – 40º to +85ºC

Features per Channel

- Supports CAN Specification 2.0B
  - Standard Data and Remote Frames
  - Extended Data and Remote Frames
- Programmable Global Mask
  - Standard Message Identifier
  - Extended Message Identifier
- 15 Message Objects of 8-byte Data Length
  - 14 TX/RX Buffers
  - 1 RX Buffer with Programmable Mask
- 8-bit Asynchronous Non-Multiplexed user interface
- Programmable Bit Rate
- Flexible Interrupt Structure
- Flexible Status Interface
- Message filtering
- Error handling, including CRC and bit loading rules (bit Stuffing/Destuffing)

Physical Characteristics

- Dimensions: 67mm x 46mm
- Weight: 18g

Operation Environment

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

Host Interface

- 4000 family of carrier boards
- Power:
  - At standby: +5V @ 200mA
  - Maximum additional power required per Channel: +5V @ 70mA

Software Support

- C drivers with source code
- Additional software may be available on our website

Ordering Information

- **M4KCAN2**
  2 independent channels of CAN 2.0B protocol with standard and extended message frames and Message Identifiers
- **M4KCAN4**
  Same as above with 4 independent channels
- **M4KCAN6**
  Same as above with 6 independent channels
- Additional Options:
  -E Extended temperature option
  -001 With conformal coating

Note: When ordering this module with a 4000 family carrier board, use the module code specified in the *Module Ordering* Information on our website, or in the *User's Manual* of the carrier board.

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These specifications are subject to change without notification

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