

PC/104 CAN-BUS MODULE WITH 4 SERIALS



DESCRIPTION

The M437R module is a low-cost, high-performance CAN interface board that provides access to a wide range of CAN applications for PC/104 systems.

The module is based on the Intel CAN controller 82527. The 82527 controller is a highly integrated device that performs all serial communication functions such as transmission and reception of messages, message filtering on extended message frames, transmit search and interrupt search with minimal interaction from the CPU.

The M437R module supports the standard message frames in CAN Specification 2.0 Part A and also the standard and extended message frames in CAN Specification 2.0 Part B.

The 82527 provides storage for 15 message objects of 8-byte data length. Each message object can be configured as either transmit or receive except for the last message object. The last message object is a receive-only buffer with a special mask design.

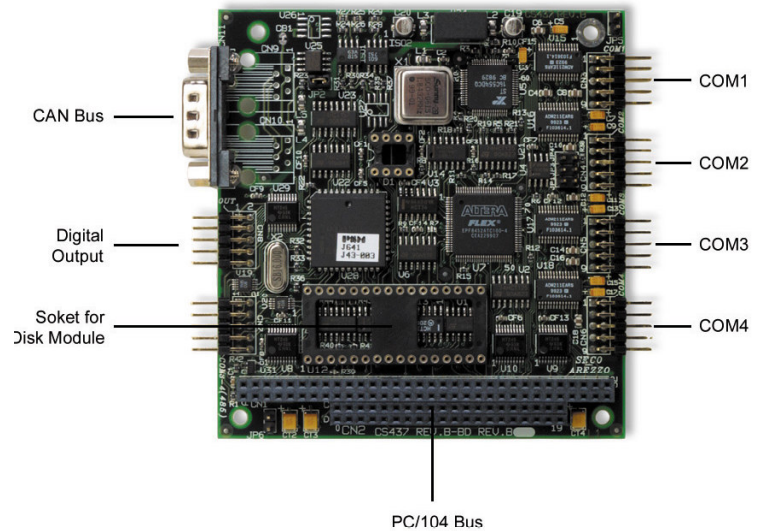
The 82527 controller implements a global masking feature for both standard and extended message filtering, that allows the user to mask any identifier bits of the incoming message.

The M437R module also integrates 4 serial ports, two RS232 Full Modem and two configurable to work in RS-232C, RS-422 or RS485 mode.



ORDERING INFORMATION

Part Number	Description
M437R-A	CAN-bus Controller with 4 RS232



TECHNICAL SPECIFICATIONS

- **CAN Controller INTEL 82C527**
- **Addresses and Interrupts** configurable via software
- **1 Mb/s maximum data rate**
- **8 user accessible bit programmable digital Outputs**
- **Galvanically isolated physical interface** with SI9200 transceiver
- **1 status LEDs**
- **Supports CAN Specification 2.0:**
 - Standard Data and Remote Frames
 - Extended Data and Remote Frames
- **Programmable Global Mask**
- **15 Message Objects** of 8-byte data length
- **4 Serial Ports:** two RS232 Full Modem and two RS-232/RS-422/RS-485 with addresses and interrupts configurable via software
- **PC/104 expansion:**
 - 16-bit standard 64 + 40 pins connector
- **Standard:** ISO/DIS 11898
- **Environmental**
 - Power supply voltage: +5V
 - Power consumption: +5V, 250 mA
 - Operating temperature: 0° to 70° C
 - Storage temperature: -20° to 85° C
 - Relative humidity: 5% to 95%
- **Dimensions** 90 × 96 mm (3.6 × 3.8")
 - vertical 19 mm (0.75") for each additional PC/104