

DS-MPE-CAN2L Dual CAN 2.0 Port PCIe MiniCard Module



FEATURES

- 2 CAN 2.0B ports
- 1Mbps data rate
- Programmable interrupts
- 31 receive buffers for improved performance
- 16 transmit buffers plus 1 high priority transmit buffer
- 16 programmable acceptance filters
- Supports 11-bit & 29-bit identifiers
- 500V port-to-port & input-to-output isolation
- Driver supports dual-independent & dual-redundant modes
- Jumper selectable line termination & bias
- +3.3VDC input power
- Latching connectors for increased ruggedness
- Support for Windows 7, XP and Linux 2.6
- Operating temperature -40°C to +85°C
- PCIe MiniCard full size form factor (50.95 x 30mm)

2 I/O cables are included with each board.

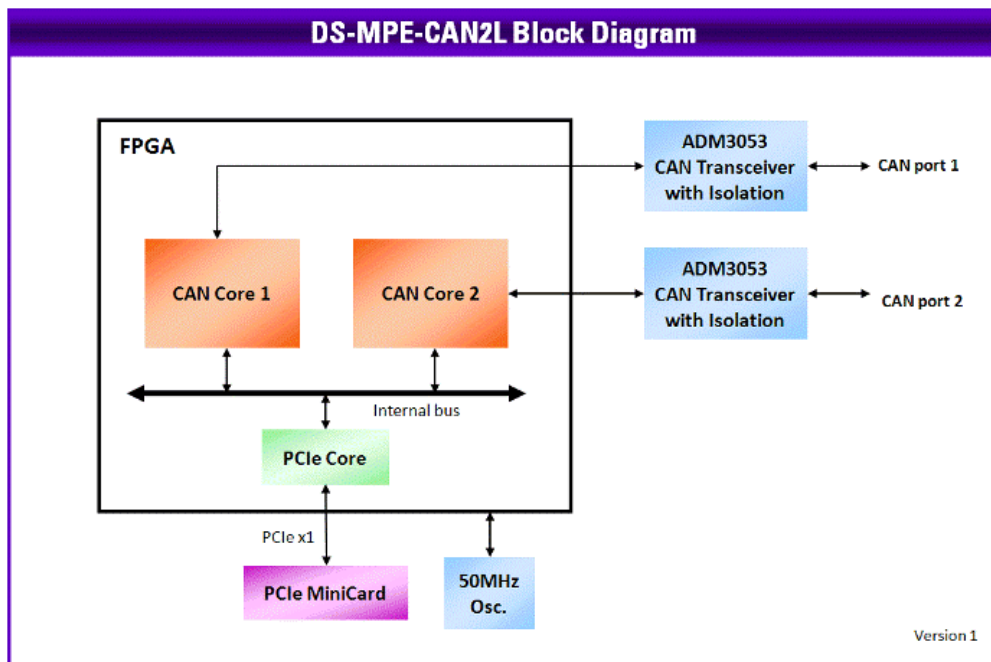
◆ Description

The DS-MPE-CAN2L is a rugged, low cost dual port CAN 2.0 PCIe MiniCard module that is ideal for CAN expansion in embedded and OEM applications.

The module implements a CAN protocol bus controller that performs serial communications according to the CAN 2.0A and CAN 2.0B specifications. The protocol uses a multi-master bus configuration for the transfer of frames between nodes of the network and manages error handling with no burden on the host processor. Error analysis features enabling diagnostics, system maintenance, and system optimization. A listen-only mode enables CAN bus traffic analysis and automatic bit-rate detection.

Extended temperature capability (-40°C to +85°C) enables the board to operate in environments with extreme temperature swings, such as vehicles or outdoor installations. In addition, the board may be custom-configured with 0-ohm resistors in place of jumper blocks for increased ruggedness in high-vibration environments.

The DS-MPE-CAN2L product comes with the PCIe MiniCard hardware assembly, a cable kit with two CAN cables, and a hardware kit containing jumpers and mounting screws.



◆ Specifications

Number of ports	2 CAN 2.0B
Data rate	1Mbps
Receive buffers	31
Transmit buffers	1 high priority 16 standard priority
Acceptance filters	16 programmable, 29-bit
Identifiers	Supports 11-bit and 29-bit
Modes	Dual-independent Dual-redundant
Isolation	500V port-to-port and input-to-output
Input power	+3.3VDC +/-5%
Power consumption	0.462W @ 3.3V
Software drivers	Windows 7, XP Linux 2.6.16, 2.6.27, 2.6.31, 2.6.32
Form Factor	PCIe MiniCard full size
Dimensions	50.95 x 30mm (2 x 1.18")
Operating temperature	-40°C to +85°C
Operating humidity	5% to 95% noncondensing
MTBF	1,583,210 hours at 20°C
Weight	8.5g (0.3oz)
RoHS	Compliant

◆ Models and Accessories

DS-MPE-CAN2L

available models:

DS-MPE-CAN2L Dual CAN 2.0 PCIe MiniCard Module Available

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