

EB-018-00-1

CAN Board Document

Contents of package

1. CAN Board EB-018-00-1
2. Document EB01840 "CAN Board Document"
3. Document "Warranty"

Summary – CAN Board

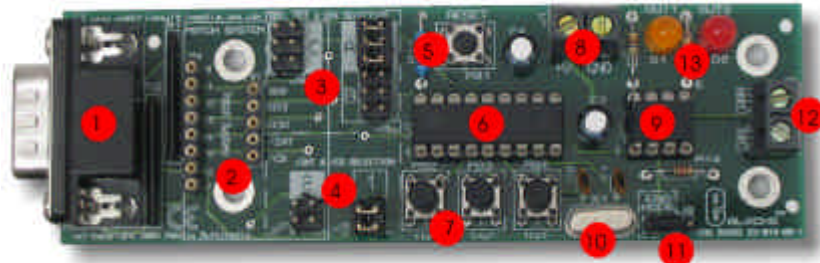
Description

This E-block allows investigation of the CAN bus communication protocol. The board allows CAN to be added PICmicro® microcontrollers and other processors that do not have a CAN peripherals embedded. The board uses both a CAN Controller (MCP2515) and a CAN Transceiver (MCP2551). The CAN controller uses the high speed SPI™ to configure the CAN controller for transmitting and receiving CAN information. The CAN transceiver converts the CAN controller signals into differential signal level used by the CAN bus, and vice versa.

Features

- Transmit and receive via CAN bus
- Enable non CAN embedded processors access to CAN protocol
- Configure CAN controller using SPI™ protocol
- Access to I / O lines on CAN controller

CAN Board Layout



Important: Please note that the mode selection jumpers are orientated in the correct way – i.e. with the metal connect strips HORIZONTAL as shown in the picture above.

1. 9-way downstream D-type connector
2. Patch system
3. SDO, SDI & SCK selection jumper pins
4. /CS and /INT enable selection jumper pins
5. Reset button
6. MCP2515 chip
7. 3 x Dedicated Input switches
8. Power screw terminals
9. MCP2551 chip
10. 20MHz crystal
11. End node selection jumper
12. CAN bus screw terminal
13. 2 x Dedicated Output LEDs

General Guide for SDO, SDI & SCK settings

Jumper at A		Jumper at B	Jumper at C
PIC16F7x	PIC16C6x	PIC16F88	Patch System
PIC16F7x7	PIC16CC7x	PIC16F87	
PIC16F87x		PIC16F818	
PIC16F87xA		PIC16F819	
Connect to Port C		Connect to Port B	

General Guide for /INT and /CS settings

Jumper Settings	Description
1	Hardwired /CS and /INT selection /CS = Bit 0, /INT = Bit 6
2	Patch System

If using a PIC16F88, insert board to Port B and jumper settings = B & 1

For more information on see Section 4 – Circuit Description on the Datasheet for this product

Where to find more information

On the ELSAM CD, which is provided with all 'upstream' devices (i.e. Multiprogrammer), is the relevant information for the other E-Blocks product. The E-Blocks directory also includes the following documents: -

- Installation guide.doc
- Getting started with E-Blocks.pdf

For full up-to-date datasheets, documentation, F.A.Q.s and software updates please visit

www.matrixmultimedia.com/eblocks

Using the following user name and password

User name: eblocks

Password: halifax

You will now have access to up-to-date information that you require.