

SPI Memory and D/A Board Document

Contents of package

1. SPI Board EB-013-00-1
2. Document EB01340 "SPI Memory and D/A Board Document"
3. Document "Warranty"

Summary – SPI Board

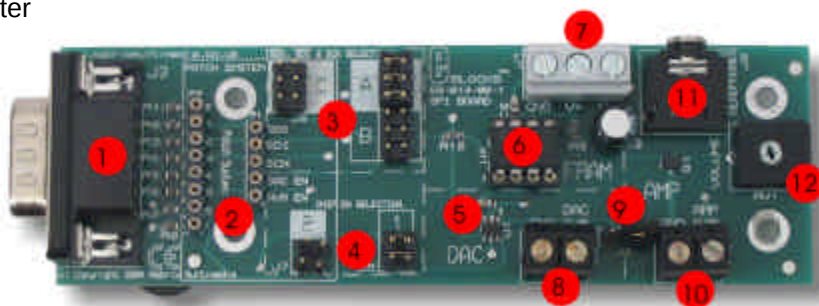
Description

This E-block allows investigation of chip-to-chip serial communication protocols, specifically aimed at the SPI interface. The board also provides Non Volatile Memory and a Digital to Analogue Converter. An on board amplifier allows output from the D / A. Also on board is a headphone socket for use in audio applications. Flowcode macros for driving this E-block are available.

Features

- SPI serial Non-Volatile Memory
- SPI serial Digital to Analogue Converter
- Flowcode macros available
- Amplifier output for D / A Converter
- Headphone socket for audio use

SPI 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. SPI Chip enable selection jumper pins
5. SPI Serial D / A Converter
6. SPI Serial FRAM
7. Power screw terminals
8. D / A Output
9. Amplifier selection jumper pins
10. Amplifier output screw terminal
11. Headphone socket
12. Volume control for amplifier

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	

General Guide for Chip Enable settings

Jumper Settings	Description
1	DAC and NVM Chip ENABLE set to bit 7 and 6
2	Patch System

An example: Using the board with PIC16F877A in PORTC the jumper settings should be: **A & 1**

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

Where to find more information

On the ELSAM 1.4 CD, which is provided with all 'upstream' devices (i.e. Multiprogrammer), is the relevant information for the product. It is in the E-Blocks directory, which includes the following documents: -

- Installation guide.doc
- Getting started with E-Blocks.pdf
- SPI Board folder – which contains datasheet and test program

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.