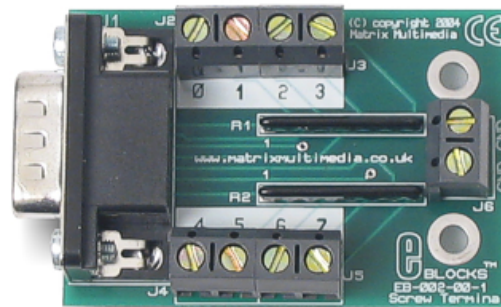


# Screw terminal board datasheet

## EB002-00-1



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Appendix 1      Circuit diagram

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## 1. About this document

This document concerns the E-blocks Sensor board code EB002 version 1.

The order code for this product is EB002.

### 1. **Trademarks and copyright**

PIC and PICmicro are registered trademarks of Arizona Microchip Inc.  
E-blocks is a trademark of Matrix Multimedia Limited.

### 2. **Other sources of information**

There are various other documents and sources that you may find useful:

#### **Getting started with E-Blocks.pdf**

This describes the E-blocks system and how it can be used to develop complete systems for learning electronics and for PICmicro programming.

#### **PPP Help file**

This describes the PPP software and its functionality. PPP software is used for transferring hex code to a PICmicro microcontroller.

#### **C and assembly strategies**

This is available as a free download from our web site.

### 3. **Disclaimer**

The information in this document is correct at the time of going to press. Matrix Multimedia reserves the right to change specifications from time to time. This product is for development purposes only and should not be used for any life-critical application.

### 4. **Technical support**

If you have any problems operating this product then please refer to the troubleshooting section of this document first. You will find the latest software updates, FAQs and other information on our web site: [www.matrixmultimedia.com](http://www.matrixmultimedia.com) . If you still have problems please email us at: support@matrixmultimedia.co.uk.

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## **2. General information**

### **1. Description**

This small circuit board allows you to safely access connect via screw terminals to any of the 8 I/O lines and a ground signal. This adds gives great flexibility to E-Blocks, meaning non-standard E-Block designs can be used with the E-Block range. Therefore allowing the design of more innovative projects.

Further information on E-blocks is available in a separate document entitled Introduction to E-blocks.doc.

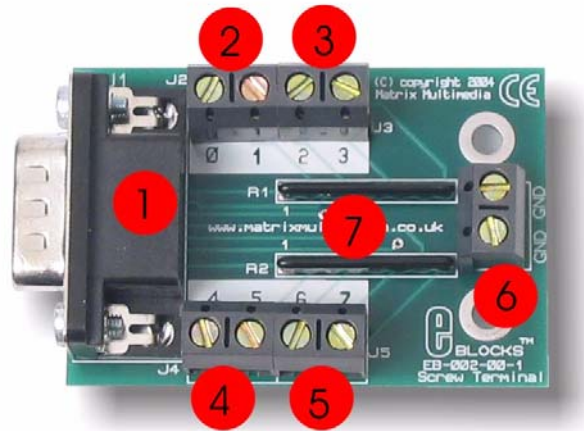
### **2. Features**

- E-blocks compatible
- Allows external devices to be used with E-Blocks
- 3.3 Voltage compatible

### **3. Block schematic**

Not supplied.

### 3. Board layout



- 1) 9 Way D-type Plug
- 2) J2 Screw Terminal for bits 0 & 1
- 3) J3 Screw Terminal for bits 2 & 3
- 4) J4 Screw Terminal for bits 4 & 5
- 5) J5 Screw Terminal for bits 6 & 7
- 6) J6 Screw Terminal for GND
- 7) Series 220 Ohm safety resistors

## **4. Testing this product**

Not relevant – a Multimeter can be used to check signal path integrity if required.

## **5. Circuit description**

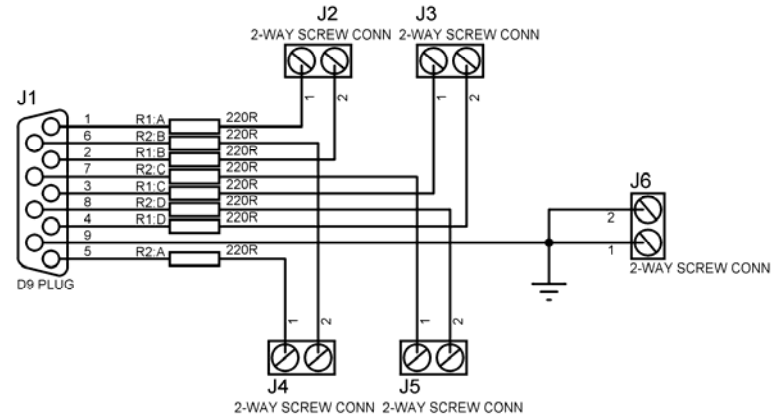
The Screw Terminal Board (EB-002) allows the user to add external device to make them E-Block compatible. This is achieved by allowing access to all I/O lines available on the port that the screw terminal is connected. The board converts the standard 9-way D-type connector used with E-Blocks to set of screw terminals. The screw terminals give access to all 8 I/O lines and the ground signal of the up-stream (Multiprogrammer, AVR board, CPLD board etc) port. Small values resistors are used in series to protect the Up-stream device

### **4. *3.3V operation***

This board is compatible with 3.3V systems.

Appendix 1 – Circuit diagram

THIS SYSTEM INCLUDES:-  
 → FEET



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TITLE: <b>Screw Terminal Board</b> EB-002-00-1		DATE: <b>03/09/04</b> PAGE: <b>1/1</b>	
BY: <b>Conor Carr</b>		REV: <b>1</b>	