



EB-028-00-1

Home Automation Board Document

Contents of package

1. Home Automation Board EB-028-00-1
2. Document EB02840 "Home Automation Board Document"
3. Document "Warranty"

Summary – Home Automation Board

Description

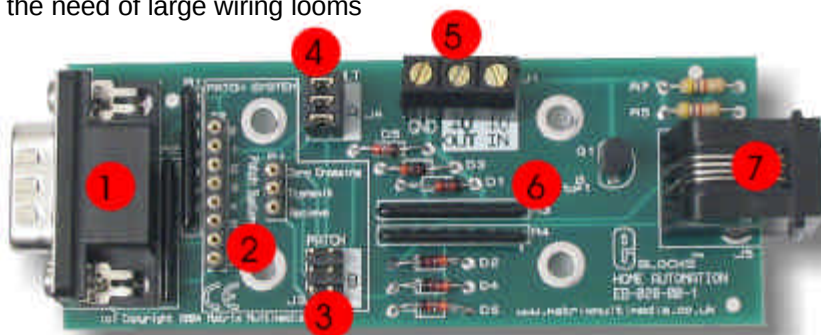
This E-block allows investigation into Home Automation. Home Automation allows messages to be sent and received via the electrical wiring system within a building. This enables communication of devices plugged into the mains power supply with no extra wiring.

The Home Automation board allows main-borne communication using a low cost controller device like a PICmicro® microcontroller found on the E-Blocks Multiprogrammer. The Home Automation Board is connected to the mains wiring system via the TTL Interface module.

Features

- Transmit and receive via mains wiring systems
- Enable communication of devices without the need of large wiring looms
- Control the state of any mains device

Home Automation 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) Patch selection jumper pins
- 4) Default selection jumper pins
- 5) Power screw terminals
- 6) Control circuit
- 7) RJ11 connector socket

Connection guide for Zero-crossing, Transmit and Receive settings

Jumper Settings	Description
A	Hardwired Zero crossing, Transmit and Receive selection Zero crossing = Bit 0, Transmit = Bit 1, Receive = Bit 4
B	Patch System

For more information on see Section 4 – Circuit Description

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.