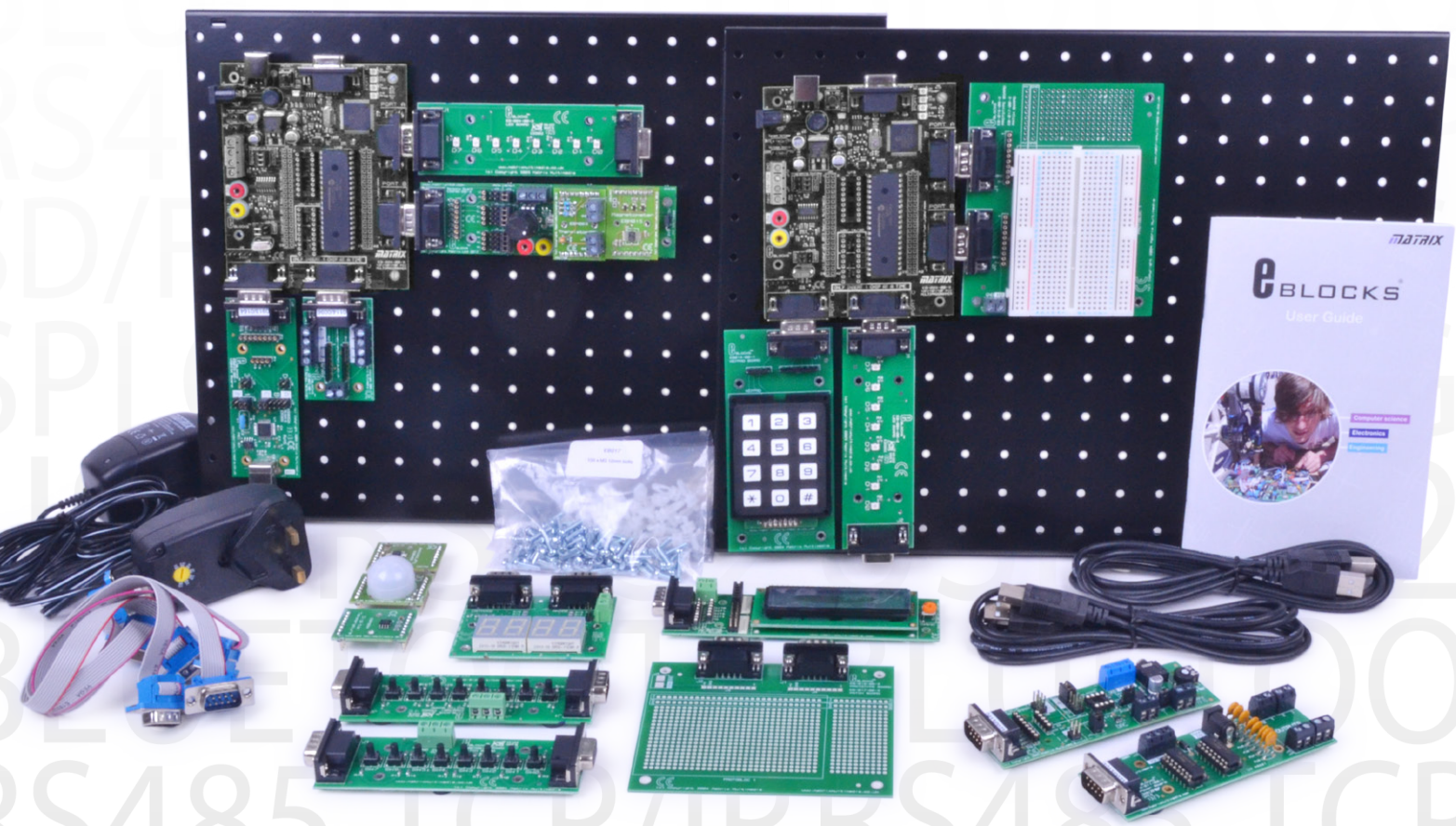# MATRIX

e BLOCKS®

Deluxe PICmicro® starter pack

General information

This board provides a selection of E-blocks™ that can be used for a wide range of applications in microcontroller programming: both for learning and for projects.

1. Features
- Two programmer/Processor E-block boards
- A selection of peripheral and interface E-block boards
- Metal backplanes and accessories for mounting the E-blocks
- Mains power supply adaptor
- Supplied in rugged storage/transport trays
- Downloadable resources from the Matrix TSL website, including: Utility software for downloading compiled code
- Free online course in microcontroller programming

2. Benefits
- Can be used with a wide range of students - from technician to postgraduate
- Saves a great deal of time in project construction
- Can be combined with our courseware to provide a complete solution to learning

Pack description

These deluxe packs are ideal for the more sophisticated learner who needs to learn more than just the basics of microcontroller programming- particularly where communications between one microcontroller and another are an important issue and for this reason they include two device programmer boards.

The pack contains metal backplanes for mounting E-blocks, a power supply, a collection of individual E-blocks together with rugged plastic storage trays and accessories like nuts and bolts, mounting pillars, cables and IDC connectors etc. The E-blocks boards and accessories can be used to form a wide number of electronic systems, for learning or for project work, and additional E-blocks boards and sensors can be added to these systems as you need them.

Plastic covers for all E-blocks are available which can extend E-block board life and prevent chips and links from being removed.
The product is shipped in rugged plastic trays for storage and transport and is supplied at a considerable discount to the sum of the costs of the individual parts.

A free online tutorial in microcontroller programming is available on the Matrix TSL website, much of which can be completed with the demonstration version of Flowcode, which is available as a free download.

Courseware and software for programming in C or assembly is available separately, as is a full version of our graphical programming software - Flowcode.

2

Further information

1. **Learning time**
Not applicable: learning time is dictated by the course used with E-blocks. Flowcode , Assembly for PICmicros and C for PICmicros can each be used to give learning courses of 50 - 60 hours.

2. **Prerequisites**
Depends on course undertaken

3. **Manual**
An E-blocks user's guide is available electronically.

4. **System requirements**
PC with CD ROM drive and Windows XP or later.

5. **Futher information**
A separate datasheet is available for each of the E-blocks boards included in the pack. Please see our web site for details.

6. **Order code**
The order code for this product is EB4838.

7. **Also consider**
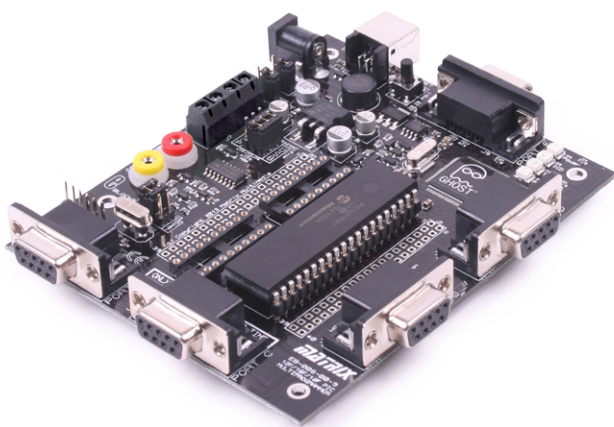Courses in Flowcode, C and Assembly code programming.
Deluxe starter packs
Solutions and trainer packs

Pack Contents

The table gives a list of the major items of the pack contents.
Datasheets on any individual item are available
from the resource section of the Matrix TSL website www.matrixtsl.com

Qty	Description
2	Metal backplane and accessories
1	E-blocks terminal board
2	E-blocks LED board
1	E-blocks LCD board
2	E-blocks PICmicro multiprogrammer version 9
2	E-blocks push-to-make switch board
1	E-blocks Dual 7-segment display
1	E-blocks power board
1	E-blocks SPI bus D/A and memory board
1	E-blocks Keypad board
1	E-blocks Prototype board
1	E-blocks patch board kit
1	E-blocks USB 232 board
1	E-blocks sensors mother board
1	Thermistor sensor module
1	Digital temperature sensor module
1	Gyroscope sensor module
1	Passive infrared (PIR) sensor module
1	Magnetometer sensor module
2	Power supply
2	USB lead

MATRIX