

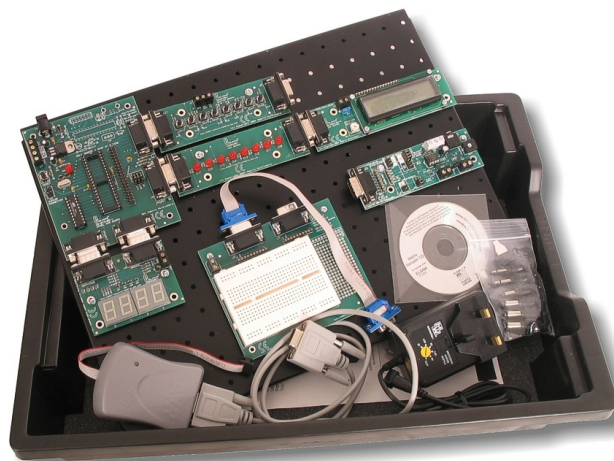
# Deluxe AVR starter pack

## What does it do?

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.

## Benefits

- Can be used with a wide range of students - from technician to postgraduate
- Can be used across many subjects in Engineering and Computer Science
- Saves a great deal of time in project construction
- Can be combined with our courseware to provide a complete solution to learning AVR programming



## Features

- Includes an AVR programming board
- Include utility software for downloading code
- A comprehensive course with compilers and IDEs is available
- Supplied in rugged storage trays with cables, backplane and accessories.

## Description

This E-blocks pack is based on the popular Atmel AVR series of microcontrollers. It provides you with a set of hardware resources that allow you to develop projects in both C and assembly with a minimum of fuss. This pack includes the following hardware: an AVR in-system programmer, 2 AVR Multiprogrammer boards, 2 Switch boards, 2 LED boards, an LCD board, a 7-segment display board, an RS232 board, a prototype board, a patch board, an IR/IrDa board, a keypad, a D/A and memory board, an A3 mounting system with nuts and bolts, a power supply (please specify country) and a rugged case. Clear acrylic covers for these E-blocks can be ordered separately.

This suite of E-blocks is sufficient for a range of projects based on Atmel AVR technology. Further E-blocks and sensors can be added as required. At the heart of this collection of E-blocks is the AVR Multiprogrammer which includes everything you need to both program an AVR microcontroller as well as to develop AVR projects. The AVR in-system programmer (USB) gives the designer a compact and reliable programming tool to program a range of in-system programmable devices. The E-blocks AVR board is compatible with a range of 20 pin and 40 pin flash Atmel AVR devices which sit in the appropriate DIL sockets on the board. The I/O lines from these chips are fed to 4 E-blocks ports each of which contain 8 I/O lines. The AVR device is clocked by a crystal - which can be easily removed to insert a crystal of your preferred frequency - or by an RC oscillator inside the AVR device. The CD ROM includes a range of development tools including an Integrated Development Environment for code writing in assembly and debugging, a professional C compiler, and the ISP programming software. An additional CD ROM containing a complete course in programming the AVR microcontroller in C is available.

## Learning time

Not applicable: learning time is dictated by the CD ROM based course 'C for AVR microcontrollers' which will give around 40 hours of learning time.

## Prerequisites

Windows skills  
Digital Electronics

## Manual

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

## System requirements

PC with CD ROM drive and Windows 98 or greater.

## Further information

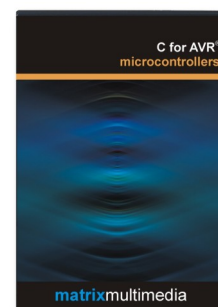
A separate datasheet is available for each of the E-blocks boards included in the pack. Please see our web site for details.

## Order code

The order code for this product is EB343.

## Also consider

Our complete course in programming the AVR ATmega in C. This includes a full IDE and compiler.

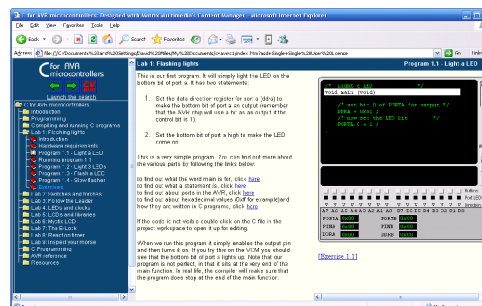


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## Pack contents

The table below gives a list of the pack contents. Datasheets on any individual item are available on request.

| Tray | Qty | Code    | Description                              |
|------|-----|---------|------------------------------------------|
| 1    | 1   | BP232   | E-blocks backplane - tray compatible     |
| 1    | 1   | EB216   | Pack of 100 M3 anti-slip nuts            |
| 1    | 1   | EB217   | Pack of 100 M3 12mm pozi head screws     |
| 1    | 1   | EB251   | Male to Male IDC connector               |
| 1    | 1   | EB283   | AVR in-system serial programmer          |
| 1    | 1   | EB355   | E Blocks User Guide                      |
| 1    | 2   | EB634   | E-blocks IDC cable                       |
| 1    | 1   | ELSAM   | ELSAM mini CD ROM                        |
| 1    | 1   | HP2045  | Shallow plastic tray                     |
| 1    | 1   | HP4039  | Lid for plastic trays                    |
| 1    | 1   | HP5328  | International power supply with adaptors |
| 1    | 2   | HP6219  | E-blocks plastic mounting pillar         |
| 1    | 1   | HP9734  | Cardboard box for trays                  |
| 2    | 1   | EB00300 | E-blocks sensor interface                |
| 2    | 2   | EB00400 | E-Blocks LED board                       |
| 2    | 1   | EB00500 | E-Blocks LCD board                       |
| 2    | 2   | EB00700 | E-Blocks Switch board                    |
| 2    | 1   | EB00800 | E-Blocks Quad 7-segment display          |
| 2    | 1   | EB01100 | E-blocks power board                     |
| 2    | 1   | EB01300 | E-blocks D/A and memory board            |
| 2    | 1   | EB01400 | E-blocks Keypad                          |
| 2    | 1   | EB01600 | E-Blocks Prototype board                 |
| 2    | 1   | EB01700 | E-blocks patch board                     |
| 2    | 2   | EB01900 | E-blocks ATMEL AVR board                 |
| 2    | 1   | EB03900 | E-blocks USB232 - board only             |
| 2    | 1   | EBPUB   | E-blocks publicity sheet                 |
| 2    | 1   | HP2045  | Shallow plastic tray                     |
| 2    | 2   | HP2642  | Holed foam for E-blocks trays            |
| 2    | 1   | HP4039  | Lid for plastic trays                    |
| 2    | 1   | HP9734  | Cardboard box for trays                  |



A screen image from the AVR course showing the microcontroller simulator