

Deluxe PICmicro® 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
- Saves a great deal of time in project construction
- Can be combined with our courseware to provide a complete solution to learning

Features

- Includes utility software for downloading code
- Free introductory course in microcontroller programming
- Complete courses for C and Assembly programming are available
- Supplied in rugged storage trays with cables, backplane and accessories.



Description

This deluxe starter pack contains a metal backplane for mounting E-blocks, a power supply, a collection of individual E-blocks and utility software, rugged plastic storage trays and accessories like nuts and bolts, cables and IDC connectors. 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.

This starter pack is also supplied a free introductory course: 'An introduction to microcontroller programming' on CD ROM. Additional courses in C programming or assembly code programming are available as extras, and these include all the compiler/ assembler software needed for a complete learning and development.

For 2007/8 the E-blocks mix for these products has changed slightly and prices have been reduced. Please see below full details on pack contents. 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.

Learning time

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

Prerequisites

Depends on course undertaken

Manual

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

System requirements

PC with CD ROM drive and Windows 98 or greater.

Further information

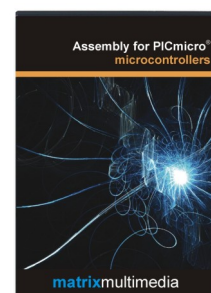
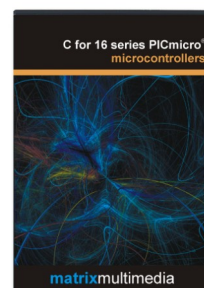
A separate datasheet is available for each of the E-blocks boards included in the pack. Please see our web site for details.

Order code

The order code for this product is EBI10.

Also consider

CD ROM courses in C and Assembly code programming.



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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.



The CD ROM 'An introduction to microcontroller programming' is included free of charge in this pack. The contents are as follows:

Learning objectives

Study of the CD ROM—will achieve the following objectives:

- Gain a thorough understanding of the basic concepts of programming microcontrollers from basic techniques through to interrupts.
- Develop the skills and techniques required to write develop electronic systems based on microcontrollers

CD ROM contents

The CD ROM is divided into several sections:

Labs contents

- Lab 1: Outputs
- Lab 2: Delays
- Lab 3: Connection points
- Lab 4: Calculations
- Lab 5: Loops
- Lab 6: Inputs
- Lab 7: Decisions
- Lab 8: LCD
- Lab 9: Keypad
- Lab 10: Analogue inputs and EEPROM
- Lab 11: Macros
- Lab 12: External interrupts
- Lab 13: Timer interrupts

Tray	Qty	Code	Description
1	2	HP16F877	PIC16F877A
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	EB355	E Blocks User Guide
1	2	EB634	E-blocks IDC cable
1	1	EBPUB	E-blocks publicity sheet
1	1	ELFCSSI3	An intro to microcontroller programming CD ROM
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
1	1	HPUSB	USB lead
2	1	EB002	E-blocks screw terminal board
2	1	EB003	E-blocks sensor interface
2	2	EB004	E-Blocks LED board
2	1	EB005	E-Blocks LCD board
2	2	EB006	E-blocks USB Multiprogrammer
2	2	EB007	E-Blocks Switch board
2	1	EB008	E-Blocks Quad 7-segment display
2	1	EB011	E-blocks power board
2	1	EB013	E-blocks D/A and memory board
2	1	EB014	E-blocks Keypad
2	1	EB016	E-Blocks Prototype board
2	1	EB017	E-blocks patch board
2	1	EB039	E-blocks USB232 - board only
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

About PICmicro MCU chips

introduction
Digital vs Analogue
Inputs and outputs
Memory
Programming
16F877 architecture

Clocking your PICmicro device

E-blocks

Flowcode step-by-step

Digital outputs
Digital inputs
Basic loops
The LCD display
Binary numbers
Decisions
Connection points
7-segment displays

Software macros
Strings and memory
A simple Hi-fi

PIC projects

Construction methods
Choosing a power supply
Adding inputs
Input conditioning
Adding outputs
Adding drivers

