8-Bit Microprocessor ICs — continued

Get Going with AVR

Get Going with AVR is an introduction to AVR microcontrollers, written by Peter Sharpe. It is intended as a fast track and as a reference guide. The book refers to the 8-bit FLASH RISC AVR micros, introducing logic, planning designs, gives some useful design examples and comes with a development disk.

Contents include:
● The AVR concept
● The range and functions
● Programming the AVR
● PWM methods
● Using the Watchdog timer

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Get Going with AVR microcontrollers …… Order Code 692-803	each

PIC Development Tools

PICSTART Plus - Low Cost Development/Evaluation System

The **PICSTART Plus** development system from Microchip provides a highly flexible, low cost entry programming tool for all of the PIC 8-bit series of microcontrollers including One Time Programmable, Erasable and FLASH devices.

The 40 way universal ZIF socket accepts device sizes from 8-pin 0.3" to 40-pin 0.6" DIL.

PICSTART Plus operates in a Windows 3.1, 95, 98, NT environment on any PC compatible machine, access to a serial port is required for communication.

The PICSTART Plus is easy-to-use and features Microchip's highly acclaimed MPLAB® Integrated Development Environment (IDE) this features an editor, MPASM assembler and Windows based simulator which provides a comprehensive user interface with on-screen views of all used registers during program simulation.

Full documentation is included and software is supplied together with device data on CD-ROM.

The development system is supplied complete with 9-way RS-232 cable, PIC16F84 device sample and a universal power supply.

UK or International IEC power leads are available separately.

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	Order Code	Price Each
PICSTART Plus Development/Evaluation System	704-740.	
UK mains lead	439-319	
European mains plug lead	210-699	

PIC IN A BOX – Ultimate PIC Starter Package

PIC IN A BOX is a complete starter kit for those intending to work with the PIC 8-bit microcontroller. Contents include a PICSTART PLUS (programmer, editor, assembler/ simulator software, samples, power supply, all necessary cables and a copy of the Microchip data library on CD-ROM), a copy of "The Beginners Guide to the PIC" and "PIC Cookbook", a Project Board, PIC Soft with additional projects aimed at the beginner and starter guidance notes.
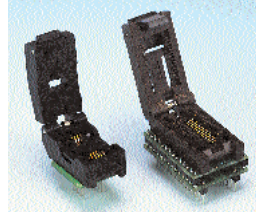
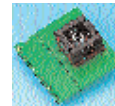**Exclusive to Farnell in conjunction with Nigel Gardner**.

SEM407

	Order Code	Price Each
PIC IN A BOX Starter Package	789-288	
Power Supply 9V, 500mA (UK 240Vac)	110-899 .†	
Power Supply 9V, 900mA (IEC 110–240Vac)	110-711 .	
UK mains plug lead	439-319	
European mains plug lead	210-699	
† Available until stocks are exhausted		

Programming Adaptors

698-180   698-179   797-005

To assist with product development, the following adaptors have been designed for use with the PICSTART Plus programmer.

SEM689

	Order Code	Price Each
8 pin SOIC to DIL socket module for PICs	698-180	
14 pin SOIC to DIL socket module for PICs	113-554	
18/28 pin SOIC to DIL socket module for PICs	698-179	
44 pin PLCC socket module for PICs	797-005	
68 pin PLCC socket module for PICs	306-0809	
84 pin PLCC socket module for PICs	303-7356	

MPLAB-ICD In-Circuit Debugger

The MPLAB-ICD is a powerful development tool based on the FLASH PIC16F877 and can be used to develop this and other PICmicro microcontrollers from the 16Cxx family. It uses the In-Circuit Debugging capability of the PIC16F87x and In-Circuit Serial Programming (ICSP) protocol to offer a cost effective In-Circuit FLASH programming and debugging from the graphical user interface of the MPLAB-IDE. This allows a designer to develop and debug source code by watching variables, single-stepping and setting break points. The MPLAB-ICD also programs FLASH PIC16F87x family.

The MPLAB-ICD consists of three basic components: ICD module, ICD header and ICD demo board.

System Features:
In-Circuit run-time debugging:

● Real-time code execution
● Single step
● One hardware breakpoint
● Variable watching
● 3.0V to 5.5V

● 32kHz to 20MHz
● Development and Evaluation kit supporting PIC16F87x
● PC communication via serial interface at speeds up to 57600 baud

Uses Microchip's free MPLAB IDE:
● Editor
● Assembler
● Linker
● Simulator

● Project Manager
● Source level symbolic debug
● Interface to ICD and other hardware tools

Devices Supported:
PIC16F873/874/876/877
Also included are MPLAB-ICD User's Guide and MPLAB-ICD Tutorial.

SEM777

MPLAB-In-Circuit Debugger ……………Order Code 307-0645	each