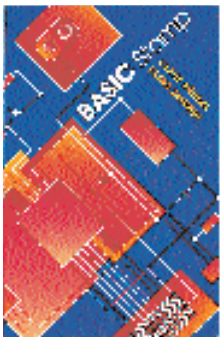
PIC Development Tools — continued

Basic Stamp

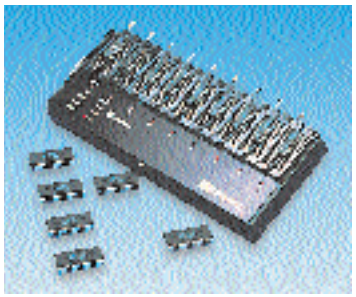


- Covers both the hardware and software sides of the Parallax BASIC Stamp I and II microprocessor operation and design
- The BASIC Stamp is built on the PIC microcontroller hardware and uses PBASIC as its programming language which makes it easy to use and modify even for beginners and versatile enough to solve professional problems
- Please refer to **Page 555** for Stamp 2 Development Kit

TP520

Order Code	Price Each 1+	3+
183-106		

8 Way Gang Programmers



Supports Dual-in-Line PIC16C5X/6X/7X/8X/62X families.

These 8 way gang programmers are designed according to Microchip's specifications as production programmers, verifying each programmed device twice, at 4.5V and 5.5V respectively.

They offer stand-alone copy mode as well as PC-hosted single programmer mode. Checksum verification ensures reliability and no defective codes will be duplicated.

Code protection status, checksum verification status, device type and all programming results are indicated by respective LEDs.

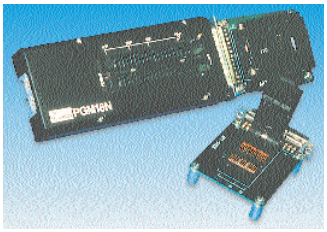
On average it takes only 10 to 20 seconds to blank check, program and verify 8 devices.

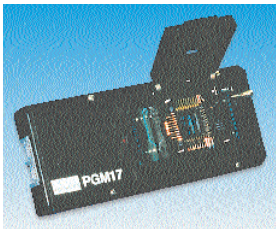
SEM248

	Order Code	Price Each
PGM16G (EU) Gang Programmer for PIC16C5X	**327-0191**†	1407.45
PGM47G (UK) Gang Programmer for PIC16C61/71/83/84/62X/71X	**563-717** †	
PGM47G (EU) Gang Programmer for PIC16C61/71/83/84/62X/71X	**327-0208**†	

† Available until stocks are exhausted

PIC16C5X, 6X, 7X, 84 and PIC17C4X Development Programmers





These pocket PIC programmers run transparently on any PC-XT/AT/386/486 and compatibles including laptop and notebook computers via the parallel port. They measure 4.75" 2" 1" and weigh only 6 oz. Cased in a quality, anodised diecast aluminium enclosure with convenient ZIF socket, these programmers provide industrial grade quality .

Programming functions include blank check, program, verify, checksum and auto program. They program configuration fuse and customer ID and come with an easy to use windowed software driver.

Available to accompany the PGM16N Programmer are adaptors for 28 pin SOIC and 44 pin PLCC packages, for the PGM17 there is a 44 pin PLCC adaptor.

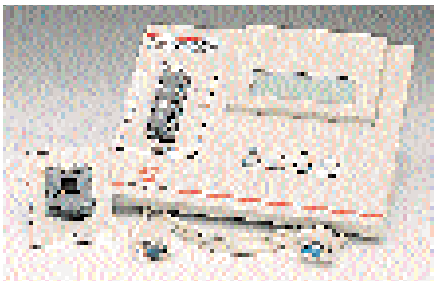
SEM7

		Order Code	Price Each
PGM16N (UK)	Supports PIC12C508/9, 14000, 16C5X/6X/ 7X/84/62X	**631-760**	
PGM16N (EU)	Supports PIC12C508/9, 14000, 16C5X/6X/ 7X/84/62X	**327-0210**	
PGM17 (UK)	Supports PIC17C4X	**563-729**	
PGM17 (EU)	Supports PIC17C4X	**328-2170**	
APT-SO28	PGM16N adaptor – 28 pin SOIC	**638-286**	
APT-PLCC44	PGM16N adaptor – 44 pin PLCC	**638-298**	
APT-PLCC17	PGM17 adaptor – 44 pin PLCC	**638-274** †	

† Available until stocks are exhausted

PIC16/PIC17 – Universal Programmer (PRO-MATE 2)

Supports all PIC12/14/16/17/18 families



The **PRO-MATE 2** universal device programmer from Microchip is a purpose built production programmer capable of programming the entire range of PIC 8-bit microcontrollers when used with the appropriate socket module.

The **PRO-MATE 2** device programmer is easy to use and operates either as a stand-alone unit or in conjunction with a PC-compatible host system.

The programmer features 'multi-voltage device verification', this ensures the integrity of the programmed data when a PIC device is operating on a 2.5 Volt to 6 Volt target board.

The internal firmware for the **PRO-MATE 2** is **FLASH** based, so that software up-dates may be easily downloaded from the latest Microchip 'MPLAB' release, this ensures that even the most current devices may be supported.

All interface cables and leads are included, complete with a universal input power supply and the comprehensive Windows® Integrated Development Environment (MPLAB-IDE) software.

Interchangeable socket modules are available separately to support the various PIC families.

UK/European mains leads available separately

SEM192

	Order Code	Price Each
PRO-MATE Universal Programmer	**.270-970**	
In-Circuit-Serial Programming Socket Module	**113-608**	
PIC12C50x, 50xA, 51x, 67x, CE67x, 16C505 (DIP) Socket Module	**306-9230**	
PIC14000 (DIP) Socket Module	**315-4877**	
PIC14000 (SOIC/SSOP) Socket Module	**315-4889**	
PIC16C5x socket module – DIL	**.270-982**	
PIC16C505, 51x, 50xA (SOIC/TSSOP) Socket Module	**315-4956**	
PIC16C52, 54, HV540, 55, 56, 57, 58A, 58B (20/28 pin) Socket Module	**315-4907**	
PIC16C62, 63, 66, 642, 72, 73, 76, 773, 873, 876 (SOIC 28 pin) Socket Module	**315-4919**	
PIC16C62, 63A, 72, 73B, 773 (SSOP 28 pin) Socket Module	**315-4944**	
PIC16C64, 65, 662, 67, 74, 77, 874, 877 (PQFP 44 pin) Socket Module	**315-4890**	
PIC16C64, 65, 662, 67, 74, 77, 774, 874, 877 (TQFP 44 pin) Socket Module	**315-4932**	
PIC16C620, 621, 622, CE62x, 710, 711, 715, 554, 558 (SSOP 20 pin) Socket Module	**315-4920**	
PIC16C64/74 socket module – DIL	**.445-666**	
PIC16C71/84 socket module – DIL/SOIC	**.271-007**	
PIC17C42 socket module - PLCC	**.630-986**	
PIC17C42A, 43, 44 (DIP 40 pin) Socket Module	**315-4968**	
PIC17C75x (PLCC 68 pin) Socket Module	**315-4981**	
PIC17C75x (PLCC 84 pin) Socket Module	**315-5020**	
PIC17C76x (SDIP 64 pin) Socket Module	**315-5006**	
PIC16C77x (DIP 20 pin) Socket Module	NEW **352-9010**	
PIC16 Assembler and Simulator Software	**271-792**	
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**	

556 Semiconductors and Passives Prices are in Singapore Dollars and exclusive of GST