

Description	Recommended For Use With	Digi-Key Part No.	Price Each	Logical Systems Part No.
<b>Programming Adapters</b>				
8 Pin SOIC .150" Wide Socket to 8 Pin .300" Wide DIP Plug 8 Pin SOIC .150" Wide Socket to 8 Pin .600" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519	309-1045-ND 309-1046-ND	43.56 43.56	PA8S01-03-3 PA8S01-03-6
8 Pin SOIC .210" Wide Socket to 8 Pin .300" Wide DIP Plug 8 Pin SOIC .210" Wide Socket to 8 Pin .600" Wide DIP Plug	PIC12(L)C508A, 509A; PIC12(L)CE518, 519; PIC12C671, 672	309-1047-ND 309-1048-ND	50.82 50.82	PA8S01-2006-3 PA8S01-2006-6
14 Pin SOIC .150" Wide Socket to 14 Pin .300" Wide DIP Plug 14 Pin SOIC .150" Wide Socket to 14 Pin .600" Wide DIP Plug	PIC16C505	309-1000-ND 309-1001-ND	43.56 43.56	PA14S01-03-3 PA14S01-03-6
18 Pin SOIC .300" Wide Socket to 18 Pin .300" Wide DIP Plug 18 Pin SOIC .300" Wide Socket to 18 Pin .600" Wide DIP Plug	PIC16C52-58, 61, 554, 558, 621-625, 71, 710-717, F83, 84; PIC16HV510; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001	309-1010-ND 309-1011-ND	50.82 50.82	PA18S01-08H-3 PA18S01-08H-6
20 Pin SOIC .300" Wide Socket to 20 Pin .300" Wide DIP Plug 20 Pin SOIC .300" Wide Socket to 20 Pin .600" Wide DIP Plug 20 Pin SSOP Socket to 20 Pin .300" Wide DIP Plug	PIC16C770, 771	309-1012-ND 309-1013-ND 309-1014-ND	50.82 50.82 58.08	PA20S01-08H-3 PA20S01-08H-6 PA20SS-OT-3
20 Pin SSOP Socket to 18 Pin .600" Wide DIP Plug	PIC16C56(A), 58A(B), 554, 558, 620(A), 621, E623-E625, 710-717, PIC16HV540	309-1016-ND	58.08	PA20SS-P54
28 Pin SOIC .300" Wide Socket to 28 Pin .300" Wide DIP Plug 28 Pin SOIC .300" Wide Socket to 28 Pin .600" Wide DIP Plug	PIC14000; PIC16C55, 57, 62, 63, 66, 72, 73, 76, 642, 773, F872, F873, F876; PIC18C242, 252; Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1023-ND 309-1024-ND	50.82 50.82	PA28S01-08H-3 PA28S01-08H-6
28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug 28 Pin SSOP Socket to 28 Pin .600" Wide DIP Plug	PIC14000, PIC16C62A(B), 63A, 72(A), 73B, 773, F872 PIC16C55(A), 57(C)	309-1025-ND 309-1026-ND	58.08 58.08	PA28SS-OT-6 PA28SS-P55
32 Pin PLCC Auto-Eject Socket to 28 Pin .600" Wide DIP Plug 32 Pin PLCC Lidded ZIF Socket to 28 Pin .600" Wide DIP Plug	AT27C(BV, LV) 512, 256, 128, 28BV64, 29C256, 28C17, 27C040	309-1089-ND 309-1090-ND	50.82 65.34	PA32-28 PA32-28Z
32 Pin PLCC Auto-Eject Socket to 32 Pin .600" Wide DIP Plug 32 Pin PLCC Lidded ZIF Socket to 32 Pin .600" Wide DIP Plug	AT27C010, 020, AT49F(BV, LV) 001, 002, 020, AT29C010, 020, 040A, 512	309-1091-ND 309-1092-ND	50.82 65.34	PA32-32 PA32-32Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	AT89C51, 8051	309-1093-ND 309-1094-ND	83.49 98.01	PA51-44 PA51-44Z
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	AT27C1024, 2048, 4096	309-1095-ND 309-1096-ND	83.49 98.01	PA280-44 PA280-44Z
44 Pin PQFP Socket to 40 Pin .600" Wide DIP Plug 44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1002-ND 309-1003-ND	119.79 119.79	PA16C64-QD-16 PA16C64-QD-03
44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug 44 Pin TQFP Socket to 40 Pin .600" Wide DIP Plug	PIC17C42(A), 43, 44	309-1007-ND 309-1008-ND	98.01 119.79	PA17C42-PDZ PA17C42-QD-03
44 Pin PLCC Auto-Eject Socket to 40 Pin .600" Wide DIP Plug 44 Pin PLCC Lidded ZIF Socket to 40 Pin .600" Wide DIP Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1039-ND 309-1040-ND	83.49 98.01	PA44-40-P64-PD PA44-40-P64-PDZ
<b>DIP to PLCC Prototyping Adapters</b>				
Emulator Adapter, 40 Pin DIP ZIF Socket to 44 Pin PLCC Plug Emulator Adapter, 40 Pin DIP Socket to 44 Pin PLCC Plug	PIC16C64A, 65A(B), 67, 662, 74A(B), 774, 77, F874, F877	309-1031-ND 309-1032-ND	105.27 90.75	PA40-44-P64-DP PA40-44-P64-DP-PP
<b>PLCC to PLCC Prototyping Adapter</b>				
44 Pin PLCC Auto-eject Socket to 44 Pin PLCC Plug, 1:1 Pinout 44 Pin PLCC Lidded ZIF Socket to 44 Pin PLCC Plug, 1:1 Pinout	Z86C(E)21, 40, 43, 743, 44, 45, 46, 61	309-1041-ND 309-1042-ND	105.27 119.79	PA44-PP PA44-PZP
<b>QFP to QFP Prototyping Adapters</b>				
44 Pin TQFP Socket to 44 Pin Solder Down QFP Plug, 1:1 Pinout	N/A	309-1043-ND	261.36	PA44QF03-44QF
<b>DIP to SO-Plug Prototyping Adapter Kits</b>				
8 Pin .300" DIP Board, Two 8 Pin .250" SOIC Plugs 8 Pin .300" DIP Board, Two 8 Pin .310" SOIC Plugs 18 Pin .300" DIP Board with ZIF Socket, Two 18 Pin .420" SOIC Plugs 28 Pin .300" DIP Board, Two 28 Pin .420" SOIC Plugs	PIC12(L)C508A, 509A, DE518, CE519 PIC12(L)C508A, 509A, CE518, CE519, 671, 672 710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001 PIC14000, PIC16C55(A), 57(C), 62A(B), 57(C), 62A(B), 63(A), 66,	309-1050-ND 309-1051-ND 309-1059-ND 309-1065-ND	15.17 15.17 36.95 26.79	PADSO-0803-D250-08/2 PADSO-0803-D310-08/2 PADSO1803Z-D420-18/2 PADSO-2803-D420-28/2
<b>SOIC to SOIC Prototyping Adapters</b>				
18 Pin SOIC .300" Socket to 18 Pin SOIC Connector 28 Pin SOIC .300" Socket to 28 Pin SOIC Connector	PIC16C52, 54(A)(C), 56(A), 58A(B), 61, 554, 558, 621, 620(A), CE623-CE625, 71, 710-717, F83, F84(A), HV540; Z86C(E)(L)02, 03, 04, 06, 08, 16, 28; Z8E000, 001 PIC14000, PIC16C55(A), 57(C), 62A(B), 63(A), 66, 72(A), 73A(B), 76, 642, 773, F872-F876; PIC18C242, 252, Z86C(E)(L)30, 31, 33, 34, 35, 36, 83, 84; Z86233, 733	309-1075-ND* 309-1073-ND*	50.82 50.82	PA-SOD-2808-18 PA-SOD-2808-28

\* Require SO-Plugs which must be ordered separately.

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
<b>Additional DIP Boards</b>			
28 Pin .300" DIP Board	309-1064-ND	17.42	PA-DSO-2803

Description	Digi-Key Part No.	Price Each	Logical Systems Part No.
<b>Additional SO-Plugs</b>			
18 Pin .420" Plugs (6 pieces)	309-1081-ND	21.56	PA-SOF-D420-18/6
28 Pin .420" Plugs (6 pieces)	309-1083-ND	28.10	PA-SOF-D420-28/6



## Network Development Kits and Modules

**Netburner SB72** is designed for applications that require a high performance/low cost 10/100 Ethernet interface to serial devices. The SB72 come preloaded with software to translate serial and Ethernet data, and is configurable through any web browser. The SB72 application code can be customized to any specific application requirements with a network development kit.

**Netburner MOD5272** core module (with Coldfire Processor from Freescale) is a device containing everything needed for design engineers to add network control and to monitor a company's communications assets. The module solves the problem of network-enabling devices with 10/100 Ethernet, including those requiring digital, analog and serial control.

**Kit Includes:** • Development board • Adapter board • CD-ROM with software (source code, development tools, manuals) • Straight through and crossover network cables • 12V power supply

Description	Digi-Key Part No.	Price Each	Netburner Part No.
Development Kit - Serial	528-1000-ND	108.17	NNDK-SB72-KIT
Development Kit - Network for MOD5272	528-1001-ND	217.07	NNDK-MOD5272-KIT
Development Kit - Network for MOD5282	528-1002-ND	217.07	NNDK-MOD5282-KIT
Serial - Ethernet Board	528-1003-ND	113.35	SB72-300CR
Processor Module Flash MOD5272	528-1007-ND	113.35	MOD5272-100CR

◆ RoHS Compliant



## PPM3-MK2 Production ISP Programmers and Accessories

This high-end production programmer is designed for high-speed In-System Programming (ISP) of programmable devices which are mounted on a Target System. It connects to the Target System by an I/O Connector Module which is interchangeable allowing the programmer to support any target connection scheme.

**Features:** • Fastest programming times possible due to on-board data, high-speed SPI and JTAG port • Supports FLASH, EEPROM, FUSE bits, Security bits and RC Oscillator Calibration bytes • 32Mbits of on-board non-volatile FLASH memory for user project storage (Standalone Mode)

**Gang Programming Capability:** • Expandable from 1-16 programming channels • Each channel can program a Target System independently of the other programmers (full asynchronous programming) • An RS-485 Converter is required to implement multi-channel programming

**Configured/Controlled by Equinox-EDTools Software:** • Equinox Development Suite (EDS) • Project Builder: to create/edit programming projects • Project Manager: to create and maintain project collections • Project Upload/Download Utility: to upload projects to the programmer for use in Standalone Mode

**Supports all standard ISP headers to connect to the Target System:** • Interchangeable "I/O Connector Modules" support all common ISP header formats: • Atmel 10-way SPI Header (as per STK200/STK500) • Atmel 6-way SPI Header • Equinox 10-way SPI Header with support for Slave Select and SCK2 • Atmel 10-way JTAG Header (as per Atmel JTAG-ICE) • Equinox 10-way UART Header for Atmel T89C51Rx2 (8051) and Philips P89C51 ISP FLASH Microcontrollers • Fast Connect-clip-in wire connectors • Wire-wrap connectors

**PPM3-MK2 - CALCON Module:** • Plug-in I/O Connector Module for PPM3-MK2 programmer for calibration of Atmel ATmega AVR Microcontrollers

**PPM3-MK2 - Production ISP Programming Module:** The EQ-SFM-MAX-V1.3 is the latest "I/O Driver Module" for the PPM3-MK2 Programmer

**Features:** • High-speed I/O driver circuit which supports SPI frequencies up to 3.6864 MHz and JTAG frequencies up to 4MHz • On-board 32,768 kHz precision oscillator which can be used for very accurate calibration (+/-1%) of an AVR Internal RC Oscillator • This module replaces the EQ-SFM-V1.2 Module and the CALCON module.

483-1002-ND	PPM3-MK2	Production ISP Programmer	852.90
483-1004-ND	EQ-SFM-1	Special Function Driver Module (replacement)	71.81
483-1005-ND	EQ-IOCON-3	I/O Connector Module 3 for Atmel ATmega JTAG ISP	94.34
483-1006-ND	RS485-C1(US)	RS232 to RS485 Serial Communications Converter	181.46
483-1007-ND	PPM3A1-UPG7	Atmel ATmega AVR - JTAG ISP Upgrade License	563.01
483-1010-ND	PPM3A1-UPG5M	Remote Application Control - Development Pack	1088.96
483-1011-ND	EQ-CONCAL-1	CALCON Module	217.76
483-1013-ND	EQ-SFM-MAX-V1.3	Production ISP Programming Module	217.76

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Free shipping on orders over £50! All prices are in British pound sterling and include duties.

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