All prices quoted are in $ USD

In System Programming (ISP) Tools
Short-form Price List – May 2009

Programmers

Order code	Description	PRICE
EPSILON5-A1	Portable high-speed In-System (ISP) Programmer with Standalone capability and USB / RS232 connectivity. Supports Atmel (AT89S, AVR, AT91SAM7), NXP (P89C51Rx2. P89C66x) and Zensys. Also supports 24xx Serial EEPROM.	**$259.95**
EPSILON5(AVR-JTAG)	Portable high-speed In-System (ISP) Programmer for JTAG programming of Atmel AVR microcontroller family. Standalone capability (1 project) and USB / RS232 connectivity.	**$259.95**
EPSILON5(SAM7)	Portable high-speed In-System (ISP) Programmer for JTAG programming of Atmel AT91SAM7 ARM7 microcontroller family. Standalone capability (1 project) and USB / RS232 connectivity. Includes SAM7 ISP Connector Cable.	**$299.95**
EPSILON5(E2)	Portable high-speed In-System (ISP) Programmer for programming Serial I2C EEPROM Memory devices. Standalone capability (1 project) and USB / RS232 connectivity.	**$259.95**
FS2009(UN)	Portable high-speed In-System (ISP) Programmer with Standalone capability using LCD / keypad (64 projects) and USB / RS232 connectivity. Supports Atmel (AT89S, AVR, AT91SAM7), NXP (P89C51Rx2. P89C66x) and Zensys. Also supports 24xx Serial EEPROM	**$499.95**
FS2009(AVR-JTAG)	Portable high-speed In-System (ISP) Programmer for JTAG programming of Atmel AVR microcontroller family. Standalone capability using LCD / keypad (64 projects) and USB / RS232 connectivity.	**$499.95**
FS2009(SAM7)	Portable high-speed In-System (ISP) Programmer for JTAG programming of Atmel AT91SAM7 ARM7 microcontroller family. Standalone capability using LCD / keypad (64 projects) and USB / RS232 connectivity.	**$499.95**
PPM4-MK1(UN)	Production In System Programming (ISP) Module. Supports Atmel (AT89S, AVR, AT91SAM7), NXP (P89C51Rx2. P89C66x) and Zensys. Also supports 24xx Serial EEPROM. Standalone capability using LCD / keypad (64 projects) and USB / RS232 / RS485 connectivity.	**$999.95**

Device Support

Order code and Product name	Description	Epsilon5	FS2003 FS2009	PPM3-MK2 PPM4-MK1
Epsilon-UPG3 FS2003-UPG7 FS2009-UPG7 PPM3A1-UPG7 PPM4MK1-UPG7	**JTAG In-System Programming (ISP) Support for Atmel ATmega AVR Microcontrollers** Allows the Atmel ATmega AVR Microcontrollers to be In-System Programmed (ISP) via their on-chip JTAG port. The JTAG algorithm yields much faster programming times than the traditional SPI algorithm due an enhanced protocol and higher bus speed.	**$164.95**	**$249.95**	**$775.50** Includes SFM-MAX-V1.3 & IO-CON-3
Epsilon5-UPG15 FS2003-UPG15 FS2009-UPG15 PPM3A1-UPG15 PPM4MK1-UPG15	**Atmel AT91SAM7 JTAG In-System Programming (ISP) Upgrade Pack** This Device Library supports In-System Programming (ISP) of the Atmel AT91SAM7 "S", "SE", "A", "X", "XC" and "L" families of ARM7 microcontrollers. This solution is aimed at high throughput production users who require the fastest possible programming of the on-chip FLASH memory of any AT91SAM7 microcontroller.	**$164.95**	**$164.95**	**$775.50** Includes SFM-MAX-V1.3 & IO-CON-10
Epsilon-UPG16 FS2003-UPG16 FS2009-UPG16 PPM3A1-UPG16 PPM4MK1-UPG16	**Serial I2C EEPROM Memory Device Library** This License Upgrade is for In-System Programming (ISP) support for I2C Serial EEPROM memory devices. This support will allow I2C EEPROM memory devices to be programmed in-situ on a Target Board using the I2C 2-wire programming interface.	**$164.95**	**$164.95**	**$775.50**

Epsilon 'Bundle' options

Order code and Product name	Description	Price
EPS-AVRJTAG-BUNDLE	**Epsilon5 - Portable ISP Programmer and Atmel Atmega AVR JTAG Upgrade** This bundle pack includes an Epsilon5 Programmer which is enabled for both SPI and JTAG programming of Atmel AVR microcontrollers.	**$329.95**
EPS-AT91SAM7JTAG-BUNDLE	**Epsilon5 – Portable ISP Programmer and Atmel AT91SAM7 JTAG In-System Programming (ISP) Upgrade Pack** This bundle pack includes an Epsilon5 Programmer which is enabled for SPI programming of Atmel AVR devices and also JTAG programming of Atmel AT91SAM7 microcontrollers.	**$379.95**
EPS-E2-BUNDLE	**Epsilon5 – Portable ISP Programmer and Serial I2C EEPROM Memory Device In-System Programming (ISP) Upgrade Pack** This bundle pack includes an Epsilon5 Programmer which is enabled for SPI programming of Atmel AVR devices and Serial I2C EEPROM Memory Devices.	**$329.95**

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Customer Price List

Upgrades

Order code and Product name	Description	Epsilon5	FS2003 FS2009	PPM3-MK2 PPM4-MK1
Epsilon-UPG1 **FS2003-UPG3** **FS2009-UPG3** **PPM3A1-UPG3** **PPM4MK1-UPG3**	**ISP-PRO Production Software Suite - License Upgrade for Equinox programmers.** Enables the programmer to be controlled by the ISPPRO application. This allows execution of complex scripts which can program unique data such as calibration data and serial numbers. The Script Builder License Upgrade is required to develop/compile the programming.	$329.95	$329.95	$329.95
Epsilon5-UPG2 **FS2003-UPG4** **FS2009-UPG4** **PPM3A1-UPG4** **PPM4MK1-UPG4**	**EQTools Script Builder – License Upgrade for Equinox programmers** Allows creation of Programming scripts using EQTools which can be run within the ISP-PRO application. The upgrade for ISP-PRO is also required in order to run the script files within the ISP-PRO application.	$412.45	$412.45	$412.45
Epsilon-UPG4M/A **FS2003-UPG6M/A** **FS2009-UPG6M/A** **PPM3A1-UPG6M/A** **PPM4MK1-UPG6M/A**	**Labview for Windows** This upgrade allows a production facility to control a single programmer from a 'Labview for Windows' application. The Developer's Pack (M) is for the first license only. The Run-Time License (A) is for one programmer only and is based on the developer having already purchased the Developer's License	$1,239.45 / $329.95	$1,239.45 / $329.95	$1,239.45 / $329.95
Epsilon-UPG5M/A **FS2003-UPG5M/A** **FS2009-UPG5M/A** **PPM3A1-UPG5M/A** **PPM4MK1-UPG5M/A**	**Remote Application Control** This upgrade allows the operation of any Equinox Programmer to be controlled from a Remote Application. The Developer's Pack (M) is for the first license only The Run-Time License (A) is for one programmer only and is based on the developer having already purchased the Developer's Pack	$1,239.45 / $329.95	$1,239.45 / $329.95	$1,239.45 / $329.95
Epsilon-UPG8 **FS2003-UPG8** **FS2009-UPG8**	**ASCII Text Communications (ATC) Protocol control upgrade** The 'ASCII Text Control' communications protocol or 'ATC' is designed as a simple way for a Remote Test System to control the basic programming operations of an Equinox programmer via an RS-232 serial link.	$249.95	$249.95	**F.O.C. with PPM3 and PPM4**
Epsilon-UPG9 **FS2003-UPG9** **FS2009-UPG9**	**Standalone Project Upload Utility Upgrade** This is a Standalone Software Utility supporting uploading of a Project Collection to an Equinox programmer. It supports simple uploading of a Project Collection to any Equinox programmer.	$89.95	$89.95	**F.O.C. with PPM3 and PPM4**
PPM3A1-UPG10M/AR **PPM4MK1-UPG10M/AR**	**ConsoleEDS PROFESSIONAL** ConsoleEDS is a powerful utility which allows any Equinox ISP Programmer to be controlled via simple Command Line commands. The Development Pack (M) is for the first license only. The Run-Time License (AR) is for one programmer only and is based on the developer having already purchased the Development License.	$1,239.45 / $164.95	$1,239.45 / $164.95	$1,239.45 / $164.95
FS2003-UPG10S/SR **FS2009-UPG10S/SR** **PPM3A1-UPG10S/SR** **PPM4MK1-UPG10S/SR**	**ConsoleEDS Standard** ConsoleEDS is a powerful utility which allows any Equinox ISP Programmer to be controlled via simple Command Line commands. The Standard version is a more cost-effective reduced-functionality package. The Development Pack (S) is for the first license only. The Run-Time License (SR) is for one programmer only and is based on the developer having already purchased the Development License.	$499.95 / $164.95	$499.95 / $164.95	$499.95 / $164.95
PPM3A1-UPG11M/A **PPM4MK1-UPG11M/A**	**Atmel AVR On-Chip Oscillator Calibration** This upgrade provides a fast and accurate method to calibrate the internal RC oscillator of most Atmel AVR microcontrollers. The Developer's Pack (M) is for the first license only The Run-Time License (A) is for one programmer only and is based on the developer having already purchased the Developer's Pack	N/A	N/A	$1,239.45 / $164.95 Includes SFM-MAX-V1.3

Upgrades are available for FS2000A programmer – please enquire for further details.

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Accessories

Order code and Product name	Description	PRICE
EQ-SFM-1	**PPM3 - Special Function (I/O) Driver Module (spare)** Spare Special Function (I/O) Driver Module for the PPM3-MK2 and PPM4-MK1 programmers. Module can be interchanged in case of damage to the I/O driver circuitry.	**$98.91**
EQ-SFM-MAX-V1.3	**PPM3 - High-speed / High Current - Special Function (I/O) Driver Module (spare)** High-speed / High Current - Spare Special Function (I/O) Driver Module for the PPM3-MK2 and PPM4-MK1 programmers. The Module can be interchanged in case of damage to the I/O driver circuitry.	**$299.95**
EQ-IOCON-1	**I/O Connector Module 1 (SPI) - Fast Connect Version** I/O connector module for In-System Programming (ISP) of Atmel microcontrollers using SPI protocol (Fast Connect version) for PPM3-MK2 and PPM4-MK1 programmers.	**$99.95**
EQ-IOCON-2	**I/O Connector Module 2 (SPI) - Wire-wrap version** I/O connector module for In-System Programming (ISP) of Atmel microcontrollers using SPI protocol (wire-wrap version) for PPM3-MK2 and PPM4-MK1 programmers.	**$99.95**
EQ-IOCON-3	**I/O Connector Module 3 (JTAG) - Fast Connect Version** I/O connector module for In-System Programming (ISP) of Atmel microcontrollers using JTAG protocol for PPM3-MK2 and PPM4-MK1 programmers (free with chargeable upgrade – see upgrades).	**$129.95**
EQ-IOCON-8	**I/O Connector Module 8 – Attiny261/461/861 – SOIC-20 Socket module** Socket Module featuring a SOIC-20 Socket suitable for the Atmel ATtiny261/461/861 microcontroller family. It can be used for SPI programming and on-chip oscillator calibration for PPM3-MK2 and PPM4-MK1 programmers.	**$295.95**
EQ-IOCON-10	**I/O Connector Module 10 - for Atmel AT91SAM7 ARM Microcontrollers** I/O connector module for In-System Programming (ISP) of Atmel AT91SAM7 microcontrollers using JTAG protocol PPM3-MK2 and PPM4-MK1	**$99.95**
RS485-C2(UN)	**Isolated RS232 to RS485 Convertor (Universal Power Supply)** The RS-232 to RS-485 Convertor module converts RS-232 levels from a PC COM port to RS-485 levels suitable for interfacing with the Equinox PPM3-MK2 and PPM4-MK1 Production ISP programmers.	**$249.95**
EQ-CALCON-1	**PPM3-MK2 - CALCON Module** Plug-in I/O Connector Module for PPM3-MK2 programmer for calibration of Atmel ATmega AVR Microcontrollers.	**$299.95**

PLEASE NOTE:

All prices are quoted in US Dollars (USD) and are ex-works (exclusive of VAT and carriage).

Please verify lead-times with Equinox or Equinox distributor at the time of ordering.

Equinox Technologies UK Limited reserves the right to change pricing and specifications of products detailed within this document without prior notice. E&OE

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