











In-System Programmer (ISP Comparison)

In-System	Xeltek	Phyton	Segger	Wellon	Equinox
Model	SuperProIS01	Chipprog-ISP	Flasher ARM	VP-ISP20	PPM4
Number of devices supported (*1)	9,024+	12027 (*8)	1202	2727	1202
Number of manufacturers supported	159+	84			15
Programming Speed (*2)	Adjustable for target hardware.		30-300Kbytes/sec (varies w target hardware) http://www.segger.com/flasher-arm.html		Varies with target hardware
DLL + LabVIEW Interface	Yes				
Programming interface	I2C, SPI, UART, BDM, MW, JTAG and requested serial ports.		JTAG/SWD		SPI, JTAG, I2C, SCI, BDM, PDI
Low Voltage Support (V)	1.2	1.8	1.8	3.0	1.8
Stand-Alone Mode (*3)	Yes	No	No	No	RS-485 Converter needed. (*5)
Free device updates on web (*4)	Yes	Yes	Yes	Yes	Yes
Data & Serial Numbers Calibration	Built-in				Additional purchase (*6)
Data Security	Yes (*7)	No		No	No
Warranty support	2 Years			1 Year	1 Year
Windows support	Windows XP/Vista/7 32/64 bit	Windows XP/7 32/64 bit	Windows XP/Vista/7 32/64 bit	Windows XP/Vista/7 32/64 bit	Windows XP/Vista/7 32/64 bit
RoHS and CE compliance	 RoHS Compliant	 RoHS Compliant	 RoHS Compliant	 RoHS Compliant	 RoHS Compliant
Website	Spec	Spec	Spec	Spec	Spec
Price	\$1,095 Buy Now	\$495	\$847.88		\$999.95 (Device configuration cost not included)
Image					

(*1) Device count as of October 2013. See [Device List](#) from the Download Center for current device count.

(*2) Programming speed varies for different devices. Contact Xeltek for accurate data.

(*3) Operate without a PC and store data in a removable compact flash (CF) card. Clustering ability for flexible volume programming up to 15+ units. See [Stand-Alone Graphic Illustrations.pdf](#).

(*4) One free device update with the purchase of SuperProIS01. Contact Xeltek for additional device update and board testing fees.

(*5) \$89.95 for stand-alone project upload utility upgrade. An RS-485 converter is required to implement multi-channel programming on Equinox PPM4 in-system programmers. Users need to convert PC serial port signals (RS232) to RS485 in order to perform multi-programming.

(*6) \$329.90 for production software upgrade and \$412.45 for script builder license upgrade.

(*7) Data security is maintained by removing the secure digital (SD) card at the end of each operation from the programmer.

(*8) [Device count by variants](#) (inflated). See [Phyton Device List](#).