

**In-System Programmer (ISP Comparison)**

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

(\*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](#).