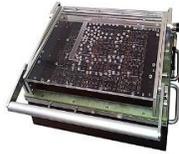


### ISP Comparison Xeltek - SMH - Algocraft

Brands	Xeltek	Xeltek	Xeltek	SMH	Algocraft
Model	SuperPro IS01	SuperPro IS03	SuperPro XPS01	Flashrunner FR01M01	WN-PRG (01A-08A)
Number of devices supported	10,183+ (1)	4,079 + User Request	User Request	Less than SuperPro IS01	
Number of manufacturers supported	188+	40+		Different Flashrunner models are needed for different IC manufacturer so not a Universal ISP programmer	
Description	Universal stand-alone programmer for low to medium volume production programming.	Universal stand-alone ISP gang programmer for high volume production of standard serial and high density eMMC, NAND and Flash devices.	Programming workstation for high volume production programming of PCB Panels (Programs multiple PCBs simultaneously)	Stand-alone in-system programmer for selected IC manufacturers. Flashrunner II series are suitable when the programming applications are for one silicon producer only. (Source: Flashrunner Catalog)	Basic host controlled in-system programmer.
Programming Speed**	Adjustable for target hardware.	Adjustable for target hardware.	Adjustable for target hardware.	Low	High
Programming Channels	1-15+	1-16	1-80	8 (multiplexed)	Up to 8 max w/o multiplexer modules
Programming interface	I2C, SPI, UART, BDM, MW, JTAG, MON, ICC, SCI and requested serial ports.	I2C, SPI, UART, BDM, MW, JTAG, MON, ICC, SCI and requested serial ports.	I2C, SPI, UART, BDM, MW, JTAG, MON, ICC, SCI and requested serial ports.	BDM, JTAG, SPI, I2C, MON, ICC, SCI	JTAG, BDM, SPI, I2C, UART
LabVIEW Driver and DLL	Yes	Under development, DLL available	Under development, DLL available	Yes	
ATE Interface	Yes	Yes	NA	Yes	Yes

<b>Free device updates on web</b>	Yes (3)	Yes (3)	Yes (3)	Yes	Yes
<b>Operation Mode</b>	Online (USB2.0 high-speed), offline (stand-alone mode with built-in LCD and keypad), DLL, Commandline utility control	USB online, network (using LAN port) online, off-line (stand-alone mode with built-in LCD and keypad), DLL, Commandline utility control	USB online, network (using LAN port) online	Host system, no LCD when operated with memory card.	Host system, no LCD when operated with memory card.
<b>Data &amp; Serial Numbers Calibration</b>	Built-in	Built-in	Built-in	Not available on FR-III series	Optional
<b>Data Security</b>	Yes (2)	Yes (2)	Password protected software	Minimal with built-in limited storage capacity.	Minimal with built-in limited storage capacity.
<b>Warranty support</b>	2 Years (3)	2 Years (3)	2 Years(3)	-	1 Year
<b>Windows support</b>	Windows XP/Vista/7/8/10	Windows XP/Vista/7/8/10	Windows XP/Vista/7/8/10	Windows XP/Vista/7	Windows XP/Vista/7
<b>RoHS &amp; CE compliance, ISO 9001</b>	All	All	All	ISO 9001	
<b>Cost</b>	\$995	\$2,995	Contact Xeltek	\$ based on applications	\$
<b>Product Link</b>	<a href="#">SuperPro IS01</a>	<a href="#">SuperPro IS03</a>	<a href="#">SuperPro XPS01</a>	<a href="#">Flashrunner FR01M01</a>	<a href="#">WN-PRG (01A-08A)</a>
<b>Image</b>					

**\*\*Programming speed varies for different devices. Contact Xeltek for programming data.**

1. Device count (10,000+) as of August 2017. Check the online Device List in the Download Center for the latest device count.
2. Data security is maintained by removing the secure digital (SD) card at the end of each operation from the programmer. No limitation on SD storage capacity. (2) Data security is maintained by removing the secure digital (SD)

card at the end of each operation from the programmer. No limitation on SD storage capacity.

3. SuperPro IS01 supports 10,000+ chips and standard algorithms are available free of charge for all ISP programmers. If a device algorithm does not function properly or if additional function update is needed, Xeltek Engineering will provide a quotation for support / update. If the chip is not listed on the Device List , it can be supported by our ISP engineers. Please contact [techsupport@xeltek.com](mailto:techsupport@xeltek.com) for the chip support quote.
4. LabVIEW driver is available for SuperPro IS01. DLL file is available for controlling external systems.