



XELTEK
SUPERPRO[®]

**THE BEST
PROGRAMMER
PROVIDER
IN THE WORLD**

SuperPro vs. Phyton Device Programming Comparison:

Model	SuperPro M	ChipProg48
Number of Devices Supported	19,880	35,681** ¹
Types of Devices Supported	EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR), BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic	FLASH, EPROM, EEPROM, NVRAM, MCU, PLD
Number of Manufacturers	158	114
Number of pin driver available	48 pins	48 pins
Programming Speed	64 MBit NOR flash memory device in 11.3 seconds	64 MBit NOR flash memory device in 50 seconds
Low Voltage Support	1.2V ⁽²⁾	1.8V
Built in processor	ARM7 RISC MCU (32 bit)	32-bit, 60 MHz
Warranty Support	2 years	
RoHS and CE Compliance	Yes	
Dimensions	70X52X15 mm, (very compact) ⁽³⁾	160x90x25 mm
Price	\$595.00	\$545.00

1. High Device Count, A Myth or Fact: Advertised number of supported devices has little meaning for device programmer comparison in this case. Chipprog48 claims to support more than 35,000 devices on this programmer which is totally inflated and falsified data. If you check the device list of this programmer, same device is counted several times, for example AT24C02-10xE-2.7 and AT24C02-10xI-1.8 are listed as 2 different devices and they are actually same device as far as programming is concerned. Xeltek don't have repetitive devices in device list and our device list is the actual number of different devices we support.
2. Programs devices with Vcc as low as 1.2V. Only SuperPro programmers are capable of programming devices between 1.2V to 1.5V; it is the lowest for the industry
3. The Phyton model is more than 6times bulkier than Xeltek SuperPro M. Obviously they use old hardware technology, which would be at least 10 years behind

SuperPro vs. Phyton Gang Programming Comparison:

Model	SP501S Cluster	ChipProg-G4
Number of Devices Supported	35,000+	35,681 ⁽¹⁾
Number of Manufacturers	217	114

Number of pin driver available	48 pins X 4 sockets, number of sockets is variable and customer can increase or decrease it to enhance throughput. ⁽²⁾	48 pins X 4 sockets
Programming Speed	64 MBit NOR flash memory device in 11.3 seconds. ⁽³⁾	64 MBit NOR flash memory device in 50 seconds
Low Voltage Support	1.2V ⁽⁴⁾	1.8V
Built in processor	ARM7 RISC MCU (32 bit)	32-bit, 60 MHz
Warranty Support	2 years	
RoHS and CE Compliance	Yes	
Standalone Mode	Yes	No
LCD and Keypad	6 key keypad and 20 character 4 line LCD display. ⁽⁵⁾	No
Memory Slot for Data storage	Yes (Compact Flash Card, comes free with programmer)	No
Data Security	Data security is maintained by removing the CF card at the end of each operation from the programmer.	No
Price	\$ 3,980.00	\$ 2,450.00

1. High Device Count, A Myth or Fact: Advertised number of supported devices has little meaning for device programmer comparison in this case. Chipprog48 claims to support more than 35,000 devices on this programmer which is totally inflated and falsified data. If you check the device list of this programmer, same device is counted several times, for example AT24C02-10xE-2.7 and AT24C02-10xI-1.8 are listed as 2 different devices and they are actually same device as far as programming is concerned. Xeltek don't have repetitive devices in device list and our device list is the actual number of different devices we support.
2. Cluster programming:
 - Clustering of programmer provides for flexible and easy way for volume production programming. Several units work together in stand-alone mode to provide an environment for volume programming.
 - SuperPro 501S Cluster is more flexible and expandable because the operator can start with one unit and add more units as the need arises.
 - There is less downtime because if one programmer fails the other units can continue to operate.
 - It has concurrent programming because each time the operator inserts a chip it begins to program it right away.
 - Supports 35,000+ device and it is easy to update device upon customers request.
 - An operator can easily handle 2 to 10 or more programmers at the same time. Number of programmers to be used in a cluster depends on programming speed of device (IC). If programming speed is faster (in case of EEPROMs, MCUs), then user needs cluster with less programmers and if device programming is slower (large size flash) then customer needs cluster of more number of programmers. User can choose the number of programmer wisely in order to achieve highest efficiency.
 - Saves the cost of a PC.
 - Compact Flash card (512MB) needed for Stand-alone mode operation.
3. Asynchronous mode is where each socket operator independently of other sockets including programming and verification operation. This provides fast programming operation as well as the independence from other malfunctioning socket. It is essentially an independent programmer for each socket. Synchronous operation is performed when one programmer supports many sockets. Programming operation is slow and susceptible to interference from other malfunctioning socket.
4. Programs devices with Vcc as low as 1.2V. Only SuperPro programmers are capable of programming devices between 1.2V to 1.5V; it is the lowest for the industry.
5. Stand-alone operation:

- Repeat programming and verification is performed without a PC attached. The programmer is completely self-contained with add-on memory (option), keyboard, and LCD display for volume production operation.
- Does not require an operator who has to have knowledge of operating a PC thus saving on the cost of the operator.
- Saves cost of a PC.
- Data integrity is insured, as there is no chance that an operator may corrupt data in the PC.
- Data security is insured, as the plug-in compact flash card may be removed and stored away at end of each day.
- Seamless transition from engineering to production is ensured, as the project file is generated in engineering, downloaded onto a compact flash card and transferred to manufacturing.
- Compact Flash card (512MB) needed for Stand-alone mode operation.