



SUPERPRO® 2000+ **NEW** \$999
High Speed 48 Pin
Stand-Alone Universal Programmer

SUPERPRO® 2000 \$895
48 Pin Stand-Alone Universal
Programmer

FEATURES:

- Enhanced version, Superpro2000+, programs and verifies chips at almost twice the speed for large chips. Production efficiency is substantially improved when programming large size chips such as Flash devices. See programming speed comparison table (Function) for detail. **NEW**
- 48 Pin DIP ZIF socket with universal pin-drivers. Stand alone or Remote (PC hosted) Mode operating in one unit (Dual modes)
- Universal DIP, PLCC, QFP, TSOP, PSOP, SOIC, SSOP, SDIP adapters (Up to 48 pins)
- Device insertion and poor-pin-contact check.
- Auto-run mode starts programming automatically upon detection of chip insertion
- Super programming speed. Programs 28F800 in less than 38 seconds and 29PL160 in less than 65 seconds (Stand-alone mode)
- Supports down to 1.8V low voltage devices
- Advanced asynchronous gang operation mode for volume production
- Supports Windows2000/NT/9x
- Windows XP compatible
- Connects to a PC via printer port
- 6000+ devices supported (Remote mode), E/EPROM, FLASH, Micros, PLD
- Tests standard logic devices and SRAM

DEVICE SUPPORT:

- PROM: N/CMOS E(E)PROM, SeriesE(E)PROM, and FLASH Memory
- Bipolar PROM: Signetics, TI, NSC, AMD/MMI and more
- PLD: PAL, EPLD, EEPLD, EPM, GAL, MACH, MAX, PEEL, FPGA, IFL, FPL and more
- Micro controller: Atmel, Hitachi, Intel, Microchip, Motorola, NEC, NSC, Signetics, WSI, Zilog, etc.

IC TEST:

- TTL (74 series), CMOS (40/45 series) Logic IC
- DRAM (4164, 41464), SRAM (2114, 6116) memory device

FUNCTIONS:

- Dual Mode Programming Operations;
 - Standalone Mode - Operates by itself to perform functions such as Copy, Edit Buffer, Read, Blank check, Erase and Test of some standard chips. Comes with internal CPU, 7 key keypad, 16x2 LCD display, and flash memory for programming data and algorithms. Standard data buffer size is 4 Mbits, which is expandable to 128 Mbits. Programming algorithms can be downloaded from the PC host via printer port, which will stay inside the memory until re flushed. Flash memory can store more than 30 algorithms at one time. The application is ideal for volume programming or field service operations. 12 volts DC power input allows for mobile operation using power from the vehicle.
 - Remote Mode - Operates with a PC. Connects to a parallel port of the PC. Provides full programming features such as Program, Read, Verify, Blank Check, Buffer Edit, Vector test, etc. Stream-lined file and buffer data management, chip selection and other features are provided as a standard. Programming algorithms for more than 3,000 devices are provided.
- Universal Pin-Driver, Universal Adapter;

Universal pin driver architecture allows for easy update of new devices. Socket adapters also become universal as that, for example, a 44pin PLCC adapter is usable for all devices in the same package. Adapters are no longer device specific, which saves money and time.
- Chip Insertion Check, Protects Chips;

Checks for proper insertion of the chip for proper programming and protection against potential damage to the chip.
- Auto Programming Mode, efficient for Volume Programming;

Chip inserted is detected and identified automatically, and programming sequence begins immediately without intervention. Operation, therefore, is error free and very efficient. It is ideal for volume programming.
- Fast Programming Speed (Superpro 2000);

In stand-alone mode programming, 8Mbit Flash (28F800) takes only 36 seconds for full programming.
- Faster Programming Speed (Superpro 2000+) **NEW**;

When programming a volume of EPROM or Flash devices each day, time becomes crucial. Superpro2000+ enhances speed of programming by almost two folds for large devices, thus enhancing daily throughput by up to twice.

Programming Speed Comparison **NEW**

Type	Superpro/2000			Superpro/2000+		
	Program (sec)	Verify (sec)	Daily Throughput (ea)	Program (sec)	Verify (sec)	Daily Throughput (ea)
28F320B3	88	80	169	49	48	290
28F800B	20	18	720	12	13	1066
28F008	30	24	514	24	15	702
29F080B	49	23	389	28	15	640
28C64B	1	0.8	7578	0.5	0.5	9600
24C256	3	8	2215	2.4	6	2769
W78E58	13	3	1600	12	2	1800
PIC12C508	1	0.8	7578	0.8	0.7	8228

- Concurrent Programming for volume production; 2, 3 or more units may be operated simultaneously for volume production. There are several advantages over using traditional gang programmers.
 - Economical - User may start with one programmer and add more units as volume grows.
 - Better Chip Support - All the devices supported in stand-alone mode can support gang mode, to have wider range of devices list.
 - Full Adapter Support - Any socket adapter available can be used for volume programming. Typical gang programmers have limit range of socket adapters available.
 - Faster Programming - Each chip can be inserted or removed individually while other chips are being programmed. In a typical gang programmer, chips are inserted and removed simultaneously causing dead time in between.
- Support for Windows2000/NT;
A programmer can be shared among users on the same network.

Application:



Stand-Alone Gang Universal Programmer for manufacturing of DVD, PDA, MODEM, Mobile Phone, POS, GPS, Monitor, GPS, Game machine, etc.



Concurrent programming for Engineering and Development.



For in-field Service not requiring a host PC for operation. Ideal for mobile use due to 12V DC input power.

DEVICE UPDATE:

XELTEK updates software and device algorithm regularly. You can get the latest software free of charge through our [Software Download](#). Updates are available by mail at a nominal charge. XELTEK also adds devices upon customer's request at its option.

ORDERING INFORMATION:

- Printer port cable, programmer, manual, software and AC Adapter (110V or 220V) included
- 30 day money back guaranty, one year warranty

WARRANTY & TECHNICAL SUPPORT:

Programmer is warranted to be free of manufacturing or workmanship defects for one year from the date of purchase. Technical support is available via email (support@xeltek.com), fax (408-588-9944), or phone (408-588-9942), Monday through Friday 8:00am to 5:00pm PST.

HARDWARE & ELECTRICAL SPECIFICATIONS:

- Power supply: Input 100V-240VAC, Output 12VDC/2Amp.
- Programmer Dimension: 200(L) x 140(W) x 24(H) mm
- Package: 263(L) x 232(W) x 100(H) mm
- Shipping Weight: 6 LB