



- *Industrial Quality*
- *Free Lifetime S/W Updates via Web*
- *True Low-Voltage Support*
- *Flexible and Expandable*
- *Optional Gang Modules Available to Support Multiple Package Types*
- *CE Certified*

PILOT-MVP-932D

8-Site Gang/Set Programmer

For E/EPROMs, FLASH, Microchip Micros and Serial PROMs

Standard Equipment:

Supports EPROMs, EEPROMs, FLASH Memories in 24-pin, 28-pin and 32-pin DIP packages.

Available Optional Expansion Gang Modules include:

Product	Devices supported	Package
GM-932C	E/EPROM,FLASH	32-pins PLCC
GM-08D	Serial EPROMs: 24xx, 25xx, etc	8-pin DIP
GM-08SM	Serial EPROMs: 24xx, 25xx, etc	8 pin, 150 mil SOIC
GM-08SN	Serial EPROMs: 24xx, 25xx, etc	8 pin, 208 mil SOIC
GM-PIC18D	Microchip PICs	18-pin DIP
GM-PIC18SO	Microchip PICs	18-pin SOIC
GM-PIC20SS	Microchip PICs	20-pin SSOP
GM-PIC28D	Microchip PICs	28-pin DIP
GM-PIC28SO	Microchip PICs	28-pin SOIC
GM-17D	Altera Serial PROMs	8-pin DIP
GM-17C	Altera Serial PROMs	20-pin PLCC

For other packages, please see www.advin.com or call the factory/Distributor.

VERSATILE AND POWERFUL

- Supports the newest and biggest memory devices, currently up to 64-MEG bits, from Intel, AMD, Fujitsu, Sharp, ST, SST, etc..
- Programs all eight devices simultaneously in gang mode (same data for all devices) or set mode (different data for each device).
- Supports a wide variety of device types including EPROMs, EEPROMs, FLASH, micro controllers (87Cxx, 89Cxx, PICs), serial PROMs (24xx, 25xx, 93xx, 17xx, EPC1, etc).
- Supports a wide variety of package types including DIP, PLCC, TSOP, TSSOP, PSOP, SOIC, etc.
- Advanced release control features: automatic generation of serial numbers, checksums, and date/time data.

- Software controlled from IBM PCs or compatibles, including 486/Pentium/Notebooks. Data transfer from PC is at high speed via standard parallel port.
- Virtual memory feature: makes use of RAM and disk space on your PC. No need for expensive RAM expansion modules.
- Automatic splits (1-to-2, 1-to-4, 1-to-8) for 16-bit, 32-bit and 64-bit system buses.
- Other featured functions include: read, program, verify, edit, checksum, file offset, buffer offset, partial address programming, ASCII buffer edit, etc.

SOFTWARE USER-FRIENDLY

- More power, utilities and conveniences than standalone programmers.
- Software is easy to learn and fast to operate.
- [Program] operation includes automatic verify. [Erase] operation includes automatic blank check. No need for operator to manually invoke separate operations .

HARDWARE USER-FRIENDLY

- Build-in power supply and hefty pin-drivers provide ample current to program all devices properly. Eliminates power problems that often plague weaker programmers.
- Interface to IBM PC through standard parallel printer port. No need to open up your PC and re-install special interface cards when moving the programmer from one PC to another.
- Universal power supply automatically accepts input voltages from 85v AC to 264v AC. No need to worry about incorrect selection for international users.

DEPENDABLE AND RELIABLE

- Equipped with the highest quality sockets available. All sockets have gold-plated connectors. (We do not use tin-sockets.)
- Backed by Advin's 20+ years of experience in manufacturing Set/Gang programmers, which demand very sophisticated software technology.
- Approved by Intel, AMD and all major semiconductor manufacturers. Designed for the serious user. Made in USA.

THE BEST SET/GANG PROGRAMMERS

PILOT-MVP-932D is the only multi-site set/gang programmer in the market today that are powerful enough for you if you need set and gang capabilities. Other programmers may give you gang functions, but only Advin Systems Inc., the leading manufacturer in set programmers, can give you the *set* functions. For example, the following and many others are possible with the PILOT programmer:

- Program 8 27C040s with 1-to-8 split, thus programming different data into each socket.
- Program 2 sets of 27C040s, with 1-to-4 split, meaning 4 devices per set. Devices within a set will have different data. The 2 sets will be identical.
- Program 27C040s, using 1-to-4 split, but since 4 devices are not big enough to hold all your data, you are going to use 8 devices. During file load, the S/W will load up 4 buffers during the 1-to-4 split, then load up the next 4 buffers after exceeding the data size of the first 4 devices. Then it will program the 8 devices in parallel, yielding one set of 8 devices, all with different data.
- Program four 27C4096s, using 1-to-4 split, and putting even-address-data into high-order-bytes (instead of defaulting to the low-

order-bytes) in your word-wide device (Motorola way). This yields a set of 4 devices for your 64-bit-wide system bus.

- Do any of the above, and save the setups in a configuration file, so that your operator just selects, say, "JO.CFG" with no other setup.
- True set/gang programming: reporting of individual errors to the socket, byte and bit level during programming or verification.



Available gang modules provide support for devices in various package types.

SPECIFICATIONS

Low Voltage Capability:

From Vcc requirements of 6.5v down to 1.8v.

Programming Sockets

Eight gold-plated, Aries Zero Insertion Force sockets.

Other package sockets: highest quality gold-plated sockets.

Number of devices programmed in parallel

Gang mode: 8.

File Formats Supported

Intel HEX, Intel Extended HEX, Intel 32-bit HEX, Intel MCS, Motorola S1, S2, S3, Binary, and ASCII.

Featured Functions Include

- Virtual memory: provides unlimited amount of RAM, depending on RAM/disk space on your PC.
- Full screen buffer edit in HEX and ASCII.
- File load, save, checksum, format, address, range.
- 1-to-2, 1-to-4, and 1-to-8 splits for 16, 32, or 64 bit modes.
- Device read, examine, load, verify, checksum, program.
- Buffer edit, fill, load, checksum, duplicate.
- Relative address and buffer offset commands.
- Active range (partial device) programming.
- Release control: automatic serial entering and numbering, automatic date/time stamping, checksum re-calculation.
- Word-wide devices: data from even address can go to low order byte (Intel-way) or high order byte (Motorola-way).
- Project files: In addition to the default "default.cfg" project file, unlimited number of project files can be saved in user-selectable names such as: Router3.cfg, John-201.cfg, etc.
- Special manual for setting configuration bits for special devices such as PIC micros and Altera serial PROMs.

RAM Expansion

Not needed, even for the biggest devices.

Operating Software

Menu-driven, easy-to-use software included

Power Supply

Built-in power switching supply, automatically adjusts to any AC voltage between 85 to 264 volts. Power connector: Std IEC. Consumption 50 Watts.

System Requirements

IBM PC or compatible machines.
Windows 98 / NT / 2000 / XP.
640K RAM., Hard disk with 5 MB of free space. CD drive.
One parallel printer port (LPT1, 2 or 3).

User interface

Menu-driven, 3-way user interface with un-surpassed speed and simplicity:

- "Easy": Commands selected by using only the cursor keys: LEFT, RIGHT, ESC and ENTER
- "Fast": Commands selected by using only the command initials

Physical

Dimensions: 7.2" wide, 11.3" deep, 3.5" tall.
Instrument weight: 5 lbs. Shipping weight: 9 lbs.

Throughput Examples (in min:sec)

	Size	Package	1 device	8-gang
27C512	512K	32-pin DIP	0:32	0:49
27C010	1 Meg	32-pin DIP	0:47	1:27
27C210	1 Meg	40-pin DIP	0:42	1:32
27C4096	4 Meg	44-pin PLCC	1:24	4:32
AMD 29DL800BT	8 Meg	48-pin TSOP	2:57	5:53
24LC64	64K	8-pin DIP	0:06	0:07
PIC16C71		18-pin DIP	0:06	0:08
PIC16C74		40-pin DIP	0:24	0:29

Note: Assuming full data file with no unused empty blocks; programmer controlled by 90 MHZ Pentium machines. No download time is required

Supplied Equipment

(A) Hardware: 2-piece programming hardware: One PILOT-MVP as base unit and one GM-932D as top Gang Module.

(B) Control software on CD, user manual, interface cable to PC, USA power cord with universal IEC terminator.

WARRANTIES AND SOFTWARE UPDATES

1 year hardware warranty. Free lifetime software updates via WEB.