Advin Systems Inc.

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www.Advin.com
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- *Industry's Most Expandable Low Cost Programmer*
- *Proven Industrial Quality, Durable*
- *Free Lifetime S/W Updates via WEB*
- *True Low Voltage Support Down to 1.8v*
- *CE Certified*
- *Gang/Set Expandable*
- *Optional In-Circuit Programming*

PILOT-MVP
UNIVERSAL PROGRAMMER

Expanding Possibilities - Please see www.Advin.com for a complete list of adapters and gang modules.

UNIVERSAL AND FLEXIBLE

- One unit supports all types of programmable devices: FLASH, EPROMs, EEPROMs, Microchip PICs, 87XX and 89XX series micros, parallel PROMs, serial PROMs (24xx, 25xx, 93xx, 17xx, EPC1), PALs, GALs, EPLDs, CPLDs, etc.
- True low voltage support down to 1.8 volts.
- Software controlled from desktops or notebook PCs. Easy new device updates via software from web.
- Pins are controlled by programmable software pin drivers.
- No adapters are necessary for programming DIP packages including EPROMs, micros, PICs, PALs, CPLDs, etc. Adapters are needed only for programming non-DIP packages.
- A wide variety of packages such as PLCC, LCC, TSOP, PSOP, SOIC, QFP, TQFP, QFN and uBGA are optionally supported by adapters available directly from Advin.
- Expandable to support high pin-count devices up to 84 pins.

ADDITIONAL SOFTWARE FEATURES

- PC Software included. Easy to learn and fast to operate.
- Compatible with Windows XP/NT/2000/ME/98.
- FREE software updates available over the web.
- Accepts various file formats including Intel HEX, Intel Extended Hex, Motorola S-records, POF, ASCII and binary.
- Virtual memory feature: makes use of RAM and disk space on your PC. No RAM expansion modules needed, even for large devices.
- File Load operation supports automatic splits (1 to 2, 1 to 4, 1 to 8) for both byte-wide and word-wide memories.
- Functions provided include: read, program, verify, sector protect, edit, checksum, file offset, buffer offset, partial address programming, ASCII buffer edit, etc.
- Release control features: automatically generates serial numbers, checksums, and date/time stamping information for memory devices.

ADDITIONAL HARDWARE FEATURES

- Reverse-device insertion check warns operator of accidental reverse placement of devices.
- Continuity check warns operator of misplaced device or broken device pins.
- Built-in power supply provides adequate and isolated power for programmer, avoids power deficiency problems common in smaller programmers which uses power adapters.
- Universal power supply automatically accepts input voltages from 85v AC to 264v AC. No need to switch between 110/230 volt AC.
- Metal chassis shields programmer from potentially damaging external static charges.
- All sockets used have gold-plated contacts and are the best quality in the industry.

DEPENDABLE AND RELIABLE

- Designed and manufactured by a company that has over 18 years of experience in making programming instruments.
- Made in Silicon Valley, California, USA, in proximity to many of the world's leading semiconductor companies.

GUARANTEE, WARRANTY AND SUPPORT

- 30-day unconditional money-back satisfaction guarantee.
- 1 year hardware warranty, including parts and labor.
- Factory-direct technical support.

UNIQUE SET-PROGRAMMING FUNCTION

- Capable of programming eight memory devices with all different data. For example, one FILE LOAD operation loads a complete firmware program across 8 devices with a 1-to-4 split into 4 parallel memories, then 1-to-4 split again into subsequent 4 more devices.

Expandable Hardware (Please see **www.Advin.com** for a complete list)   User Friendly Software
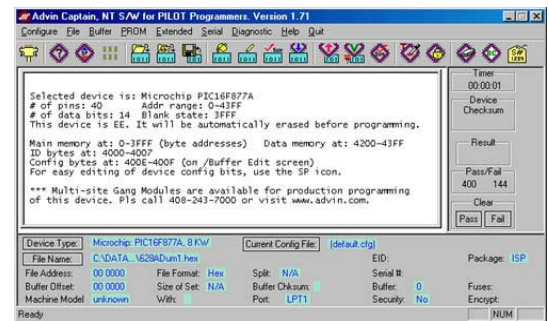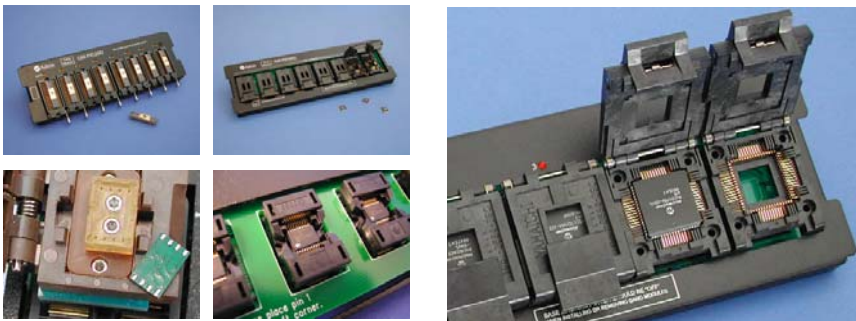
SPECIFICATIONS

Pin Drivers

40 pin drivers. Each pin is software programmable to generate either digital or analog voltages.

Minimum slew rate: .001V/us; Maximum slew rate: 1000V/us.

Range: 0 to 25.5V in 100mV increments. Current limited.

Programming socket: One 40-pin gold ZIF, accepts .3-.6" DIPs.

Device sizes supported

On standard equipment, up to: 40 pins, DIP

With optional modules, up to: 84 pins, PLCC, TSOP, PSOP, etc.

For complete details, please see Supported Devices List.

Low Voltage Capability:

All Vcc levels are supported, including 6.5v, 5v and as low as 1.8v.

Hardware Expandability:

Supports many device packages with optional add-on modules: PLCC, LCC, TSOP, PSOP, SSOP, SOIC, QFP, TQFP, QFN, uBGA, etc.

Expandable to do Gang/Set programming of EPROMs, Flash, and micro controllers with the GM-Series of Gang Modules.

Examples of available operations:

Device Program	File Directory	Configure Device	Buffer Checksum
Device Erase	File Name	Configure Port	Buffer Edit Fuse
Device Secure	File Load	Configure Save	Buffer Edit Vector
Device Chksum	File Format	Configure Width	Buffer Edit UES
Device Examine	File Save	Configure Set-size	Buffer Fill
Device Verify	File Address	Configure Algo	Buffer Load
Device Test	Active Range	Configure Security	Buffer Invert
Device Blank-Check		Configure Others	Buffer Init
Serial # Enter	Serial # Address Set		
Serial # Increment	Serial # Format Select		
Sector Protect #n	Sector Protect All		Sector Un-protect
Even/odd byte swap for Intel or Motorola Convention of Data-Addressing			

File Formats Supported

ASCII, Binary, Intel HEX, Extended Hex, Motorola S1, S2, S3, JEDEC, POF, etc.

Programming through-put, examples (in min:sec)

PIC 16F873A	0:09	PIC 18F242, Gang x 8..….	0:32
GAL16V8 ......……..........	0:03	Atmel 29C010	0:16
24LC08 ………...…........	0:02	AMD 29F010 PLCC..........	0:31

Note: Assumes FULL data file. Includes ERASE, PROGRAM, VERIFY passes. Assumes programmer is controlled by PC running at 1.8GHZ.. Programming pulse length is independent of computer speed. Programming overhead varies with computer speed.

System Requirements

PC with Windows XP/NT/2000/ME/98.

Hard disk with at least 3 MB free space. One parallel printer port.

System Interface

PC connection ....……......…..... standard parallel printer port

Equivalent transfer rate ....………............... at least 200K baud

Electrical and Physical

Operating voltage ....…… 85v to 264V, automatic switch

Power consumption: .... 40W.   Power connector: ..... Std IEC

Socket ....……..One 40-pin gold ZIF, accepts .3-.6" DIPs

Connector for Add-on/Plug-in Modules ...……................. One, 50-pin.

Dimensions …………………………………….…… 11"x7"x2.6" high.

Instrument weight: .... 4 lb.   Shipping Weight: .... 8 lb.

Supplied Equipment

Programming hardware, control software, user manual, interface cable to PC parallel printer port, detachable power cord.

Optional Equipment

Adapters for PLCC, SOIC, TSOP, PSOP, SSOP, TSSOP, QFP, TQFP, QFN, uBGA packages, etc. Gang Modules.

Warranties And Software Updates

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