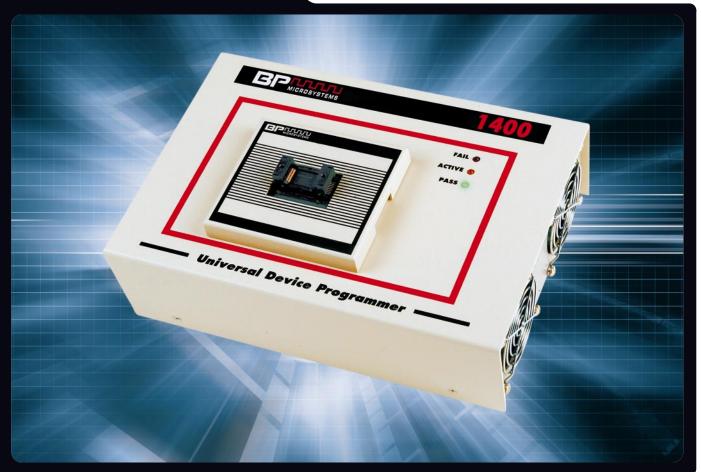


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Universal Engineering Programmer





1400/240 Universal Engineering Programmer

Built to meet the rigorous demands of the world's leading engineers and programming centers, the 1400/240 will exceed your highest expectations. The 1400/240 is a truly universal device programmer supporting all device technologies and comes standard with 240 pin drivers for complete continuity and functionality testing on all pins, unlike other competitive programmers. The 1400/240 also offers free lifetime software support and a 3-year warranty. The 1400/240 also comes with JobMaster™ software, a powerful tool that incorporates the use of ".bp" files. A feature exclusive to BP Microsystems programmers, ".bp" files are valuable for both production and engineering departments. Customers can easily share data securely around the world, transfer designs between engineering and manufacturing, and share programming files between customers and programming centers.

- Supports over 18,000 devices with voltages down to 2.4V (Vdd) including, but not limited to, EPROM, EEPROM, Flash EPROM, Microcontrollers, PLD, CPLD, FPGA and antifuse FPGAs
- Compatible with all existing socket modules, standard and automated
- Patented solution to guard against passing blank parts—available only from BP Micro
- Supports all device packages, including but not limited to, DIP, SDIP, PLCC, TSOP, SSOP, PCMCIA, SOIC, LCC, QFP, PQFP, PGA, SIMM, CSP, BGA, µBGA, TQFP and TSSOP
- Ideal for design engineering

General

Power: 90-260VAC, 47-63 Hz., 1.2 KVA, IEC inlet

connector for worldwide use

Dimensions: 11.75" (298mm) x 8.65" (220mm) x 4.68"

(119mm)

Mass: 7.22 lbs. (3.28 kg)

Software

Required: BPWin or BPDOS

File Type: including, but not limited to, binary, Intel,

JEDEC, Motorola, POF, RAM, straight hex, Tekhex, Extended Tekhex, ASCII hex, Formatted Binary (.DIO), AFM, OMF, LOF

Device Commands: blank, check sum, compare, options,

program, test, verify

Features: data editor, revision history, session

logging, on-line help, device and

algorithm information

Hardware

Calibration: automatic self-calibration

Diagnostics: pin continuity test, RAM, ROM, CPU, pin

drivers, power supply, communications, cable, calibration verification timing,

ADC, DAC

PC System

Requirements: Microsoft Windows 95 or above

PIN Drivers

 Quantity:
 240-pins standard

 Slew rate:
 0.001 to 2500V/μs

 Vpp Range:
 0-25V in 25mV steps

Ipp Range: 0-70mA continuous, 250mA peak

Vcc Range: 0-12V

Icc Range: 0-1A, 12μA resolution

Very low voltage: to 2.4V (Vdd)
Rise Time: 800ps

Overshoot: none

Protection: overcurrent shutdown, power failure

shutdowr

Independence: pin drivers and waveform generators are fully independent and concurrent on

each site

Standard Accessories Included

software on CD-ROM user manual on CD-ROM

power cable data cable

48-pin DIP socket module (not pictured)

3-year hardware warranty

Features

File Loading: automatic file type identification; no

download time because programmer is PC controlled; supports Intel, JEDEC, Motorola S-record, POF, straight hex, hex-space, Tekhex, and other file formats

Device Selection: intelligent device selector allows you to

type as little or as much of the part number as you like then choose from a list of devices matching your description

Devices Supported: including, but not limited to, Antifuse, Low

Voltage, PROM, EPROM, EEPROM, Flash EEPROM, Microcontrollers, SPLD,

CPLD, FPGA

Continuity Test: each pin, including Vcc, ground, and

signal pins, may be tested before every

programming operation

Protection: overcurrent shutdown; power failure

shutdown; ESD protection, reverse insertion, banana jack for ESD wrist straps

Options: available Socket Modules including, but

not limited to, Universal PLCC, standard PLCC, PGA, CSP, BGA, µBGA, SOIC, QFP, TSOP, LCC, SDIP, PCMCIA, SIMM—JobMaster™ software, and Advanced Feature Software

Programming Yield: assured by independent universal pin

drivers on each socket, short distance from pin drivers to device, and accuracy

of waveforms

Algorithms: all algorithms are manufacturer approved

or certified (if required)—BP Microsystems has an excellent record of being first to provide certified algorithms for new

devices

Algorithm Updates: free software updates are available eight

times per year



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