

# BPM 2900 | 2900L Specifications

## PIN DRIVER

<b>Quantity:</b>	240-pins drivers total, universal ground transistors 48 fully universal drivers with vcc, vpp, digital and clock 96 high speed digital and clock pins
<b>Vpp Slew Rate:</b>	40V/ms to 6V/us
<b>Vpp Range:</b>	0V to 25V
<b>Ipp Range:</b>	Up to 1.2A total
<b>Vcc Slew Rate:</b>	40V/ms to 4V/us
<b>Vcc Range:</b>	0V to 13V
<b>Icc Range:</b>	0-2A
<b>Digital Rang:</b>	0V to 4.5V
<b>Digital Rise Time:</b>	4ns
<b>Protection:</b>	Vpp, Vcc, and digital pin drivers are protected from ESD events. Vpp and Vcc drivers are also protected from overcurrent
<b>Clocks:</b>	800kHz to 64MHz

## SOFTWARE

<b>Required:</b>	BPWin
<b>File Type:</b>	Binary, Intel, Motorola, RAM, straight, hex, hex-space, Tekhex, Extended Tekhex, ASCII, hex, OMF, LOF, MER, STAPL, and other
<b>Device Processes:</b>	D check, blank check, continuity, auto start, blank, checksum, compare, program, test, verify, erase, secure
<b>File Loading:</b>	No download time because programmer is PC controlled
<b>Devices Supported:</b>	NAND Flash, NOR Flash, Serial Flash EPROM, EEPROM, Managed NAND, MC
<b>Protection:</b>	Overcurrent shutdown, power failure shutdown, ESD protection, reverse insertion, banana jack for ESD wrist strap
<b>Additional Features:</b>	Automatic file type identification, Jobmaster™, BERT™, Auto Range, Data Editor, Revision History, Device and Algorithm information, Searchable help menu, BBM, ESS, session logging, on-line hel
<b>Operating Systems:</b>	Microsoft Windows 7, 32bit
<b>Algorithms:</b>	Large library of existing algorithms. All algorithms are manufacturer approved or certified (if required).BPM Microsystems has an excellent record of being first to provide certified algorithms for new devices

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## PROGRAMMING HARDWARE

<b>Power:</b>	90W
<b>Architecture:</b>	9TH Generation Concurrent Programming System with Vector Engine Co-Processor®
<b>29XX Programming Sites:</b>	1 per site, 1 to 4 sockets per sit
<b>1900 Programming Sites:</b>	1 per site, 1 socke
<b>Calibration:</b>	Annual, may be performed on site with included socket card
<b>Site Diagnostics:</b>	RAM, communications, calibration, timing, LEDs, fans, pinoe (pin output enabled), power supplies, voltage/current/slew for vpp and vcc, high current vcc mode, digital pin drivers, and relays
<b>Daughter Card Diagnostics:</b>	Ground Transistors, digital driver path to programmer, dcard LEDs, customizable diagnostics per dcard
<b>Continuity Test:</b>	Each pin, including Vcc, ground, and signal pins, may be tested before every programming operation
<b>Memory:</b>	256GB per site, upgradeable to 512GB
<b>Communications:</b>	USB 2.0
<b>Data Pattern Broadcast:</b>	25MB/s
<b>Firmware ROM:</b>	Software automatically performs firmware download
<b>Peak Verify Bandwidth:</b>	20ns cycle
<b>User Interface:</b>	Pass, Fail, Active, Start LEDs, and start button on each site; PC display shows systems status at a glance; auto-start mode automatically begins programming when device is inserted
<b>Programming Yield:</b>	Assured by independent universal pin drivers on each socket, short distance from pin drivers to device, and accuracy of waveforms

## MECHANICAL SPECIFICATIONS

<b>Operational Temperature:</b>	Temperature:55° to 90° F (13° to 32°)
<b>Relative Humidity:</b>	30-80%
<b>Dimensions:</b>	Length 304.800mm x width 304.800mm working height (excluding sockets) 73.025m
<b>Weight:</b>	3.7kg
<b>2900L Power:</b>	Explain how the power works on the 2900...

## WARRANTY

<b>Hardware:</b>	One Year Warranty
<b>Software:</b>	One Year Suppor