

SUPERPRO[®] / 5004GP

USB 2.0 Interfaced, ultra-high speed universal gang programmer, built-in 144 universal pin drivers.

- ◆ Programs and Verifies 64 Mb NOR FLASH memory in 11.3 seconds and 1 Gb NAND Flash in 108 seconds
- ◆ Built-in 144 universal pin-drivers
- ◆ Supports more than 42,000 IC devices from 150+ manufacturers
- ◆ Programs devices with Vcc as low as 1.2V
- ◆ Consists of 4 independent programming modules operating concurrently



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Features:

- ※ Supports 41,882 IC devices from 147 manufacturers and continuing.
- ※ Programs devices with Vcc as low as 1.2V.
- ※ Ultra fast programming speed: Programs and verifies 64 Mb NOR FLASH memory in 11.3 seconds and 1 GB NAND Flash Memory in 108 seconds.
- ※ Built-in 144 universal pin-drivers for support of today's most complex devices
- ※ Universal and device independent socket adapters available for various package types up to 144 pins
- ※ Consists of 4 independent programming modules operating concurrently for high speed programming
- ※ USB2.0 interface to a PC for high speed programming
- ※ ISP/ICP programming capability through optional ISP/ICP adapter.
- ※ Only IC manufacturer approved programming algorithms provide high reliability. Vcc verification at (+5%~-5%) and (10%~-10%) enhances programming reliability.
- ※ Provides over-current and over-voltage protection for safety of the chip and programmer hardware.
- ※ Compatible with Windows Vista and Windows XP x32/x64
- ※ Includes the following advanced and powerful software functions:
 - Chip operation starts immediately upon proper chip insertion in **Production Mode**.
 - The **Project** function simplifies processes such as device selection, file loading, device configuration setting, program option, and batch file setting into one step.
 - **Password** protection provides security for project files and production volume control.
 - The **Batch** command combines device operations like program, verify, security into a single command at any sequence.
 - **Serial number generators** are available as standard or customer-specific functions.
 - A **Log file** provides quality tracking.

Speed Comparison:

DEVICE	P + V (sec)	TYPE
K8P6415UQB	11.3	64Mb NOR FLASH
AM29DL640G	27.6	64Mb NOR FLASH
K9F1208U0B	67.4	512Mb NAND FLASH
KAP21WP00M	108	1Gb NAND FLASH
K9F1G08U0A	116.5	1Gb NAND FLASH
AT28C64B	0.9	64Kb EEPROM
24AA128	4.5	128Kb EEPROM
B25F640S33	30.4	64Mb EEPROM
AT89C55	7.5	20KB FLASH MCU
ST72F324BK4B5	3.8	32KB FLASH MCU
MB89F538	1.67	32KB FLASH MCU
UPD78F9234	8.8	16KB FLASH MCU

Hardware & Electrical Specifications:

- ※ **Device Supported:** EPROM, Paged EPROM, Parallel and Serial EEPROM, FPGA Configuration PROM, FLASH memory (NOR & NAND) n, BPROM, NVRAM, SPLD, CPLD, EPLD, Firmware HUB, Microcontroller, MCU, Standard Logic.
- ※ **Package:** DIP, SDIP, PLCC, JLCC, SOIC, QFP, TQFP, PQFP, VQFP, TSOP, SOP, TSOPII, PSOP, TSSOP, SON, EPGA, FBGA, VFBGA, GA, CSP, SCSP etc.
- ※ **PC interface:** USB2.0 (High speed)
- ※ **Stand-alone Function:** None
- ※ **Power supply.** AC Adaptor: Input AC 100V- 240V; Output: 12V/6A.
- ※ **Main unit:** Dimensions 438 * 216 * 94 mm ; Weight 9.5 lbs (4.3 Kg)
- ※ **Package:** Dimensions 550 * 252 * 145 mm; Weight 13 lbs (5.9Kg)

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