



## PCARD-1

**Low-cost Programmer for Microchip PIC® Microcontrollers and for Serial EEPROM's. Many 2-wire (I2C) and 3-wire (Microwire and SPI) EEPROM's from Atmel, Catalyst, Fairchild, ISSI, Microchip, Philips, Ramtron, Rohm, Samsung, ST Microelectronics, Xicor are also supported. Small, Fast, Affordable Universal Programmer with High-End Features...**

- Programming of Microchip PIC12/16xxx Microcontrollers and 24/93xx EEPROMs
- 24-pin ZIF socket for on-board programming of a DIP target IC
- 20-pin Expansion connector for In-circuit programming of a target IC
- RS232 Serial Port connector for communications with the host PC
- Optically isolated from the host PC for safe operation
- Single operating unregulated voltage 15 . 18VDC
- On-board 13 Volt and 5 Volt regulators
- Dimensions are 2.6 X 3.8 inches ( 6.5 X 9.5 centimeters )
- 0 ° to 70 ° C operating, -40 ° to +85 ° C storage temperature range
- Windows-based program with graphical user interface
- Program, Read, Verify, Blank Check and Erase operations
- Hex Editor with Locate, Copy and Fill features
- Full support for Special Function Area, Data Memory, Program Memory.
- BIN and HEX file format support
- Upgradable firmware



## QuickWriter

QuickWriter is a highly versatile PIC® Programmer with a large set of features for a comparatively low price that is unmatched in the industry

- Programs 4 devices as quickly as a single device when using a Gang adapter
- Supports In-Circuit Programming with the included cable
- Auto incrementing serial numbers in Code or Data locations
- Supports existing programming adapters
- Select from 1 to 4 devices on Gang adapters
- Reports individual failures when programming multiple devices
- Enable/Disable each programmable area of the MCU
- Select manual programming tasks or "Auto Run"
- "Control Mode" file support for archiving and production purposes
- Serial communication port connectivity
- File editing/saving/loading
- EEPROM / Calibration editing
- FLASH firmware updates



## ChipProg-48

- Supports parallel & serial Flash memory devices, EPROM, EEPROM, microcontrollers with embedded Flash and OTP memory and PAL/PALCE/GAL/PEEL/PLD devices
- Programs all DIP-packed device from 6 to 48 pin via a 48-pin pin ZIF DIP socket - no additional adapters are required
- Optional adapters for programming devices in PLCC, SOIC, SSOP, QFP, BGA, QFN, SON and other packages are available
- Very fast operations - programs a 64 MBit NOR flash memory device for less than 50 sec
- Supports in-system programming for the devices allowing the ISP (ICP) mode via special cables-adapters
- Communicate to a PC via a USB 2.0 compatible port
- Being based on four independently working 32-bit microcontrollers and FPGAs, provides very fast loading & programming
- Works under control of Windows 9x/2000/NT/XP/Vista. Allows to work in a multi-programmer mode - unlimited number of ChipProg units can be driven from one computer
- Supports loading files of all popular formats: Intel HEX, Binary, Motorola S-format, POF, JEDEC, PRG, ASCII Hex & Octal, etc.
- Built-in editor supports sophisticated operations with blocks
- Vpp and other parameters precise adjustment via the software settings
- Embedded script language for automation of routine operations



- Serialization of the programmed devices by writing a serial number into a specified target memory location
- Calculation of the control sum with capability to write it into a specified target memory location
- A unique signature can be written into a specified target memory location
- Advanced self-diagnostic start-up routine that check the target device reliable contact in the programming socket
- Incorrect device insertion check and overcurrent protection; automatically detects bad contacts before starting any operation
- Very small – 160x90x25 mm (6.25 x 3.75 x 1 inch)



## ChipProg-G4

- Supports over 3,000 devices including PAL, GAL, EPLD, embedded microcontrollers, Flash, OTP, MTP, EPROM, serial and parallel EEPROM
- Supported vendors include Altera, AMD, Atmel, Catalyst, Dallas Semiconductor, Exel, Fujitsu, Hitachi, Holtek, Hynix, Infineon, Intel, ISSI, Macronix, Microchip, Micron, Mitsubishi, Mosel-Vitelic, National Semiconductor, NEC, OKI, Philips, PMC, Ricoh, Samsung, Sharp, SST, ST Microelectronics, Texas Instruments, Toshiba, VLSI, Winbond, Xicor, Xilinx, XEMICS, Zilog and others
- 40-pin ZIF socket for all DIP devices
- Optional adapters for PLCC, SOIC, QFP, TSOP,SSOP and BGA packages
- Compatible with many third-party adapters
- Standard parallel port interface to a personal computer
- Advanced self-diagnostic test routine
- Loads files in Binary, Intel extended HEX, Motorola S-Record and Tektronix HEX formats
- Full screen multi-buffer editor
- Fine Vpp setting for burning hard-to-program samples and obsolete devices
- Allows operations in buffers with Hexadecimal, Binary, Decimal, ASCII dumps and files



## ChipProg-ISP

- Supports over 3,000 devices including PAL, GAL, EPLD, embedded microcontrollers, Flash, OTP, MTP, EPROM, serial and parallel EEPROM
- Supported vendors include Altera, AMD, Atmel, Catalyst, Dallas Semiconductor, Exel, Fujitsu, Hitachi, Holtek, Hynix, Infineon, Intel, ISSI, Macronix, Microchip, Micron, Mitsubishi, Mosel-Vitelic, National Semiconductor, NEC, OKI, Philips, PMC, Ricoh, Samsung, Sharp, SST, ST Microelectronics, Texas Instruments, Toshiba, VLSI, Winbond, Xicor, Xilinx, XEMICS, Zilog and others
- 40-pin ZIF socket for all DIP devices
- Optional adapters for PLCC, SOIC, QFP, TSOP,SSOP and BGA packages
- Compatible with many third-party adapters
- Standard parallel port interface to a personal computer
- Advanced self-diagnostic test routine
- Loads files in Binary, Intel extended HEX, Motorola S-Record and Tektronix HEX

