

ChipWriter Portable

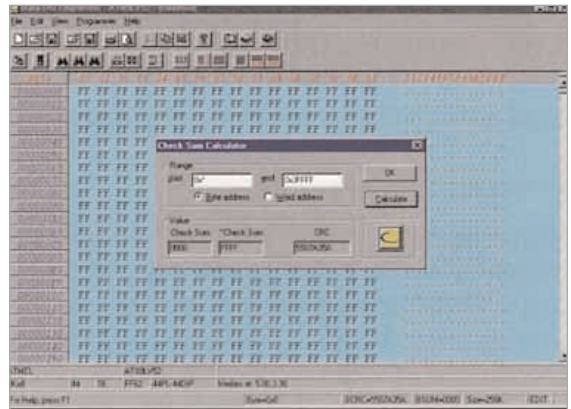
The Data I/O® ChipWriter™ Portable is a low-cost, fully portable, 40-pin universal programmer supporting a wide range of popular and leading-edge memory, microcontroller, and programmable logic devices. Ideal for field engineering and service applications, the lightweight (2 lb/.9 kg), battery-operable system features a built-in 30-button keypad and 40 × 2 LCD display allowing you to perform all program, read, and verify functions without a PC. For added flexibility, ChipWriter Portable can also run from line voltage and interface to a PC via a standard parallel or serial port.

Designed to support tomorrow's as well as today's technology, ChipWriter Portable is ready for the future with true low-voltage device support — as low as 1.8 volts. And, free on-line operating software and algorithm updates are available. Just download the latest device support from Data I/O's BBS or Worldwide Web site at any time — and at absolutely no charge.

Device and Package Support

A single-socket, universal system, ChipWriter Portable delivers broad device support and full-featured programming capabilities. This includes support for low-voltage devices with true 1.8V, 3.3V, and 5V logic levels.

- *Memory devices:* PROMs, EPROMs, EEPROMs, Flash devices, and NVRAMs
- *Logic devices:* PALs, GALs, PEELs, PALCEs, PLDs, EPLDs, EEPLDs, and CPLDs, including the AMD®/Vantis MACH®, Altera® MAX, and Xilinx® EPLDs
- *Microcontrollers:* Nearly 200 microcontrollers, including the Motorola® MC68HC705/711 family, Intel®, Philips, Microchip Technology PICs, Dallas, Atmel® 89XXX, WSI PSDs, and many more



What's more, the ChipWriter Portable's pindriver technology eliminates the need for adapters, family-specific modules or special software for most DIP devices up to 40 pins. Adapters are available for non-DIP packages, including PLCCs, SOICs, TSOPs, and QFPs up to 84 pins.

Windows or DOS User Interface

ChipWriter Portable includes easy-to-use software that runs under Windows® 95 or MS-DOS.® The intuitive, menu-driven interface provides comprehensive file handling and programming capabilities — including on-the-fly data editing. In addition, a protection mode allows you to set up your own user interfaces so field personnel can safely and easily perform complex functions with the push of a few buttons.

Long-Life, Rechargeable Batteries

ChipWriter Portable lets you program anywhere, anytime. Running from 8 AA batteries, the expected battery life is upwards of 4,000 programming cycles (depending on device type). The system's automatic power-down feature helps extend battery life, too. When

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it's time to recharge, a built-in circuit lets you conveniently recharge the batteries from a PC. Or, recharge using ChipWriter Portable's external power supply, available in four voltages (100, 110, 220, 240 volts).

Built-In Data Memory

Two memory configurations are available to suit your storage needs. ChipWriter Portable with 4Mb of internal memory can easily store data for a 512K device, or choose the 8Mb configuration for devices up to 1024K. And because ChipWriter Portable interfaces to a standard PC parallel port or RS232 serial port, data downloads and transfers are convenient and fast.

Worldwide Service and Support

Because ChipWriter Portable is from Data I/O, you're ensured the industry's highest quality and most comprehensive service and support programs for programmers in this class. ChipWriter products are covered under a full, one-year warranty for parts and labor. For technical support or service, call one of our worldwide sales offices listed on the Data I/O BBS or Web site.

Ordering Information

Description	
<i>ChipWriter Portable with user software (3.5" disk), parallel cable, manual, and:</i>	
	Order Code
4Mb RAM, 100V power supply	CWRITER-P-100
8Mb RAM, 100V power supply	CW-PORT-100-8MG
4Mb RAM, 110V power supply	CWRITER-P-110
8Mb RAM, 110V power supply	CW-PORT-110-8MG
4Mb RAM, 220V power supply	CWRITER-P-220
8Mb RAM, 220V power supply	CW-PORT-220-8MG
4Mb RAM, 240V power supply	CWRITER-P-240
8Mb RAM, 240V power supply	CW-PORT-240-8MG

Specifications

Device Support

- 8- and 16-bit EPROMs up to 8 Mb
- Paged EPROMs
- EEPROMs and serial EEPROMs (including 8-pin)
- Flash devices and NVRAMs
- Bi-polar PROMs
- PALs, GALs, PEELs, PALCes, EPLDs
- AMD/Vantis MACH, Altera MAX 5000/7000, and Xilinx XC7XXX EPLDs
- Nearly 200 micro-controllers, including the Motorola MC68HC705/711 family, Intel, Philips, MCT PIC micros, Dallas, Atmel 89XXX, WSI PSDs, and many more

Package Support

- DIPs up to 40 pins (standard)
- PLCCs, SOICs, TSOPs, and QFPs up to 84 pins (with optional adapters)

System Operations

- File load, edit, and save

Device Operations

- Read/load, dual pass verify, verify signature, illegal bit test, blank check, program, erase, ID test
- Device insertion/continuity test
- Checksum (of the entire memory buffer or just the device)

Memory Editing Features

- Basic RAM editing
- Fill RAM
- Copy RAM
- Search for a particular string in RAM
- Goto RAM (go to a specific address in RAM)
- Byte SWAP
- Set Buffer Size (set the buffer for larger or smaller devices)
- Device Serialization

Logic Editing Features

- View fusemap
- Basic fuse editing
- Fusemap fill with all 0's, 1's
- PAL to GAL fusemap conversion
- Edit UES (User Electronic Signature)
- Test vector generation/edit
- Security fuse status, program, auto secure

Input/Output

- Parallel port
- RS232 serial port

File Formats

- Unformatted (raw) binary
- ASCII-SPACE-HEX
- ASCII-OCTAL
- Standard HEX (auto recognition)
- Motorola HEX (S1, S2, S3 records)
- Intel MCS 86 HEX
- Tektronix HEX
- Extended Tektronix HEX
- Texas Instruments HEX
- Xilinx HEX
- Altera POF
- Altera JAM
- Standard JEDEC

Standard Accessories

- 40-pin DIP socket
- Parallel cable
- User software and manual
- IC tester for 74-series, 4000-series, and SRAM/DRAM devices
- External power supply/recharger
- Built-in battery recharging circuit
- Fault diagnosis software

Options

- Custom adapters for PLCC, TSOP, SOIC, and QFP packages up to 84 pins
- Power supply/recharger for other standard voltages

Minimum System Requirements

- Any XT or later PC or compatible
- Windows 95 or MS-DOS 3.0 or higher
- Hard disk drive
- Parallel port
- Recommended available disk space: 2 MB

Operating Voltages

- 100/110/220/240 VAC

Physical/Environmental Specifications

Dimensions

- 9.5 × 6 × 2.5 in (24 × 15 × 6 cm)

Weight

- Programmer: 2.0 lb (0.9 kg)
- Power supply/recharger: 0.5 lb (0.23 kg)
- Shipping weight: 6.0 lb (2.7 kg)

Temperature

- Line Supply: +32°F to +158°F (+0°C to +50°C)
- Battery Supply: +50°F to +95°F (+10°C to +35°C)

Humidity

- 40% to 70% RH noncondensing



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Specifications subject to change without notice.

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LI4940/20498/SS2302