

# ChipWriter Gang

The Data I/O® ChipWriter™ Gang is a low-cost, high-speed production programmer supporting a wide range of memory devices. Featuring one master and eight 32-pin DIP copy sockets, both gang and set programming capabilities, and exceptionally fast programming speeds, ChipWriter Gang maximizes throughput. And with a choice of PC-based or stand-alone operation, ChipWriter Gang can also optimize the flexibility, efficiency, and reliability of your programming process.

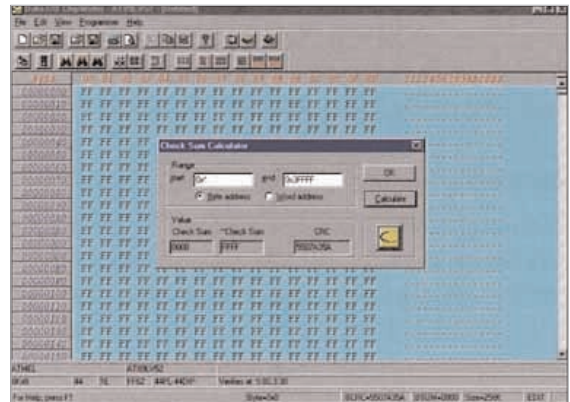
Designed to support the latest low-voltage devices, ChipWriter Gang provides full program and verify support down to 3.3 volts. And, free on-line operating software and algorithm updates are available. Just download the very latest device support from Data I/O's BBS or Worldwide Web site at any time — and at absolutely no charge.

## Device and Package Support

ChipWriter Gang offers broad device support for a wide range of memory devices: 8-bit EPROMs, Flash devices, Paged EPROMs and Parallel EEPROMs up to 8 Mb. What's more, the ChipWriter's pindriver technology eliminates the need for adapters, family-specific modules or special software for most DIP devices up to 32 pins. In addition, optional adapters provide support for PLCCs, SOICs, and TSOPs up to 32 pins.

## Gang- and Set-Programming

ChipWriter Gang can gang-program up to eight devices at a time. Or, with its four separate data buses, it can easily set-program devices with 16- and 32-bit wide data. Data can be programmed into up to two sets of four devices, or up to four sets of two devices.



## Windows or DOS User Interface

ChipWriter Gang 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 data and full buffer editing. Batch software is also included, allowing you to set up your own user interfaces so that less-trained operators can perform complex functions quickly, easily, and safely.

## High-Speed, Highly Reliable Programming

ChipWriter Gang boosts production throughput with very fast programming times. For example, you can download, program, and verify eight 1-Mb devices in just 23 seconds. And because ChipWriter Gang uses manufacturer-approved programming algorithms, you're ensured the highest yields, too.

## Choice of PC-Based or Stand-Alone Operation

As flexible as it is fast, ChipWriter Gang can operate as a PC-based or two-button, stand-alone system. When used with a PC, ChipWriter Gang conveniently

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interfaces directly to the standard parallel port and features easy-to-use, menu-driven software.

You can also set up programming parameters for a specific device using the PC, and store them on ChipWriter Gang's internal EEPROM or in a separate EEPROM. Once ChipWriter Gang is set up for stand-alone operation, you can load the configuration data from a device master and program the parts using just two buttons. To avoid potential programming errors during stand-alone operation, ChipWriter Gang displays a code upon power-up that shows which device it is configured to program.

## Worldwide Service and Support

Because ChipWriter Gang 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. All ChipWriter programmers are covered under a full, one-year warranty for parts and labor. For technical support or service, contact one of our worldwide sales offices listed on the Data I/O BBS or Web site.

## Ordering Information

<b>Description</b>	
<i>ChipWriter Gang with user software (3.5" disk), parallel cable, manual, and:</i>	
<b>Order Code</b>	
110V power supply	CWRITER-G-110
100V power supply	CWRITER-G-100
220V power supply	CWRITER-G-220
240V power supply	CWRITER-G-240

## Specifications

### Device Support

- EPROMs, Paged EPROMs
- Parallel EEPROMs
- Flash devices (supported in PC mode only)
- NVRAMs

### Package Support

- DIPs up to 32 pins (standard)
- PLCCs, SOICs, TSOPs up to 32 pins (with optional adapters)

### System Operations

- File load, edit, and save

### Device Operations

- Read/load, verify, verify signature, illegal bit test, blank check, program, overprogram, chip erase, ID test
- Device selection
- Device insertion/continuity test
- Checksum

### 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)

### Input/Output

- Standard parallel 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

### Standard Accessories

- 32-pin zero-insertion force DIP sockets
- Parallel cable
- User software (menu and batch) and manual
- External power supply (specify voltage: 100, 110, 220, or 240 volts)

## Options

- Custom adapters for PLCC, TSOP, and SOIC packages
- Power supply adapter 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: 0.5 MB

## Operating Voltages

- 100/110/220/240 VAC

## Physical/Environmental Specifications

### Dimensions

- 9 × 5 × 2 in (23 × 13 × 5 cm)

### Weight

- Programmer: 3.0 lb (1.35 kg)
- Power supply adapter: 0.5 lb (.23 kg)
- Shipping weight: 6.0 lb (2.7 kg)

### Temperature

- +32°F to +158°F (+0°C to +70°C)

### Humidity

- 20% to 80% RH noncondensing



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