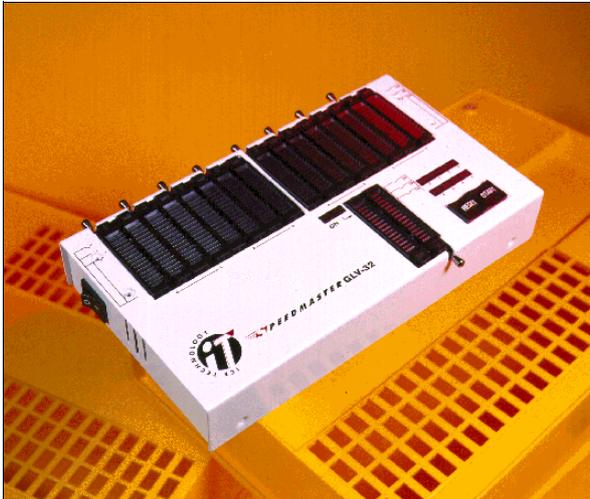




# Speedmaster GLV32 - Gang/Set Programmer



## FEATURES

- ▶ Gang/Set Programmer for up to 8 devices
- ▶ Supports 8-bit Flash, EPROM and Parallel EEPROM up to 8Mbit
- ▶ True 3.3V & 5V support
- ▶ PC based or 2 button stand alone mode operation
- ▶ Manufacturer approved algorithms used for all devices
- ▶ 8 Copy sockets and 1 Read-Only Master socket
- ▶ All sockets are fitted with 32-pin DIP ZIF sockets
- ▶ Software upgrades from the Internet
- ▶ Windows® 9x/NT4/2000 software supplied as standard
- ▶ High speed programme & verify: Eight 27C512 devices in less than 11 secs
- ▶ Interfaces to PC parallel port

The Speedmaster GLV-32 offers high speed production programming for 8-bit EPROM, Parallel EEPROM & Flash memory devices up to 8Mbits. Eight 32-pin DIP "Slave" copy sockets allow files to be copied from PC using the powerful Windows® 9x/NT4/2000 software interface, or using the simple 2-button stand-alone mode operation.

## DEVICE SUPPORT

- ✓ 8 bit EPROM up to 8Mbit
- ✓ 8-bit Flash up to 8Mbit
- ✓ Parallel EEPROM up to 8Mbit
- ✓ True Low Voltage support: 3.3V devices are correctly supported in addition to standard 5V parts

See full device support list for comprehensive parts listing.

Any device in DIP package, up to 32-pins, requires no additional adapter or family module. Single socket package adapters are also available giving support for PLCC, SOIC and TSOP package parts, Each of the adapters has been carefully designed so that eight can be used simultaneously in the programmer. This means that whatever the package, the GLV-32 can programme 8 devices at a time.

## MAXIMISE PROGRAMMING YIELDS

The GLV-32 has the capability to programme at any voltage from 3V to 25V in steps of 0.1V. This enables the exact requirements of the manufacturers programming algorithm to be met. There is no crude selection between a limited choice of voltages. This protects devices and enables maximum yield to be attained.

## LOW VOLTAGE SUPPORT

The Speedmaster GLV-32 features low voltage logic circuits which enable correct handling of devices down to 3.3V. Rather than programming, and verifying LV parts at 5V as most other programmers have to, the GLV32 is intelligent enough to select the correct voltage for the particular device, and most importantly, to verify the device at its nominal operating voltage.

## HIGH SPEED PROGRAMMING

With larger and larger devices, speed of programming is critical in cutting development and production times. ICE Technology has always prided itself in having the fastest device programmers possible.

Device	Time
27C256	6 secs
27C010	23 secs
27C040	84 secs
29F040	90 secs
All times are for 8 devices and include total time to programme and verify the device	

## PROGRAMMER FUNCTIONS

Functions available on the GLV-32 include Gang Programming, Set Programming and full editing. The programmer can be used either connected to a PC, giving access to the comprehensive software interface in Windows®, or in stand-alone mode, using either the internal EEPROM or Master EPROMs.

## PC OPERATION

The software provided with the Speedmaster GLV-32 operates under Windows® 9x/NT4/2000. The intuitive menus provide access to a wealth of functions not normally associated with a production programmer in this price range. The user friendly interface offers a comprehensive range of file handling, data manipulation and programming functions including:

- File load, edit and save
- Popular data formats such as Intel HEX, Motorola S record, ASCII, Raw binary, Octal, MOSTECH, Tektronix, Ext TekHex, TI tag, etc.
- Extensive buffer editing commands
- Checksum available in 3 formats plus CRC checking
- Read, Verify, Verify Signature, Bit test, Blank check, Programme, Programme pre-test, Chip Erase, Device ID etc.
- Single keystroke action reduces the margin of operator error and allows for continuous programming production cycles.
- Checks device position in socket before applying high Voltages
- Environment options allows complete device configurations to be stored, minimising future setup times

## SET PROGRAMMING

Generally, the programmer will be configured for Gang mode, where all 8 sockets are programmed with the same data. However, SET mode can also be selected for 16 and 32-bit systems. Four separate data buses enable the 16 and 32-bit wide data to be handled easily. Data can be programmed into 2 sets of 4 devices, or 4 sets of 2 devices.

## STAND ALONE OPERATION

The GLV-32 can be configured to work with a specific device in stand alone mode and only needs to be set-up again should the device type change. The programming algorithm for a device can be held in the programmer's internal EEPROM or in a separate Master EPROM. A set of Master PROMs can then be kept for each different device type used. On power up, the programmer displays a code to tell the operator which device it is configured for. A Master chip containing data is then placed in the Master socket and blank devices in any or all of the Copy sockets. A simple 2 button operation allows blank check, programme and verify operations, with an LED for each of the Copy sockets indicating status.

Please Note: Paged EPROMs and Flash devices cannot be programmed in Stand Alone mode. As these devices require a write cycle in order to Read from them, the MASTER socket is unable to provide this as it is READ only. This protects Master devices from accidental over-writes

## ENVIRONMENTAL SPECIFICATIONS

### *CE Compliance :*

The Speedmaster GLV32 complies to the requirements of the Low Voltage Directive 73/23/EEC and EMC directive 89/336/EEC. It was tested to and met the following standards:

- EN 55022 Emission Test (Class A)
- EN 50082-1 Immunity Tests
- FCC Level B

### *Temperature :*

- +41°F to +104°F (+5°C to +40°C)

### *Safety Standards :*

- UL1950, TUV EN60950

### *Humidity :*

- 20% to 80% RH non-condensing

For further information, availability & pricing details, contact:

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CA 94401. USA USA

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## SOFTWARE UPDATES

Software updates are available from our Internet Web page, and can be downloaded at any time, giving you the very latest devices and software revisions. 1 & 3 year Premium support contracts are available.

## GUARANTEE & SUPPORT

- Full refund if not completely satisfied within 30-days
- Full one year warranty
- Detect software provided for full firmware and comms diagnostics
- FREE technical support via email

## PHYSICAL SPECIFICATIONS

- Software operates under Windows® 9x/NT4/2000 on any PC with parallel port support
- Hard-Disk requirement: 6MB
- Dimensions: 23cm x 13cm x 4 cm (9.5" x 5" x 2")
- Weight: approx. 1.25kg (2lbs) + Mains adapter
- Shipping weight: 3kg (6lbs)

### *Package Includes:*

- Programmer
- Mains adapter
- Parallel Cable
- Windows PC software
- Installation Guide

### *Options:*

- Range of package adapters
- Mains adapters for other voltages (UK, USA, Euro, Japan available)

## ORDERING

SMGLV32-xxx

xxx = mains supply: UK:240V,

EUR:230V, JAP:100V, USA:115V

**Designed & Manufactured in the UK**

E&EO ICE Technology reserve the right to alter specifications of the products advertised without notice.