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Orbit 32

Technical Specification

Freedom of Movement

Orbit 32 provides the most convenient & portable method of EPROM development yet devised. Not chained to the desk by a mains cable or computer front-end, Orbit 32 gives the user the freedom to program devices anywhere.

Freedom of Choice

Device choice isn't a constraint either: with a Wide Blade 32-pin ZIF socket, Orbit 32 caters for most popular 0.6" pitch memory devices as well as those with 0.3" pitch. Silicon vendors' approved programming algorithms are used for optimum programming times & yield.

Protected Device Library Data

All these device types and sizes make for a substantial device library. It is essential that the programming algorithms held in this library are protected from corruption through possible user error. Stag stores this vital data in the most secure way using FLASH (non-volatile) memory which still allows easy updates via the I/O port or ZIF socket.

8 Mbit Device Programming – as Standard!

Up to 4 Mbit devices are programmed as standard, with the capability to program devices as large as 8 Mbits (in two blocks) without the need to purchase extra memory. In line with other Stag EPROM programmers, Orbit 32 benefits from 'Interlace 2' – Stag's technique for automatically splitting and shuffling 16 and 32-bit data into 8-bit format. Once data is loaded into RAM, it is retained, even after the unit is switched off, by means of a battery back-up.

High Speed Emulation

As well as being a first-class programmer, Orbit 32 is also an excellent emulator with an 'Edit While You Run' feature, ideal for when you want to try out code in a running target system, but don't want to commit the time or resource programming and erasing devices. With the data loaded into the emulator, connection to the target system is made simply via a buffered lead which permits greater distance between the Orbit and the target system.

Data can then be altered using Orbit's extensive suite of editing tools which include Modify, Insert, Delete & Complement. Truly ground breaking in this area is the ability, where permissible, to edit and emulate code without having to shut down the target system to switch from emulate to edit & back again.

Robust and Easy to Use

The menu-driven display permits removal of the unnecessary clutter of function keys. Incidentally the key-pad is of a splash-resistant membrane design to prevent the ingress of moisture and dust.

Ease of use cannot be over stressed, since great thought has gone into the product philosophy to make

it usable in the field without having to constantly refer to documents or manuals.

Windows/DOS PC Interface

To complement the extensive stand-alone functionality is a high speed serial interface which can be used to receive data or for remote control with data rates up to 115,200 Baudes via a 9-pin D-type connector.

The optional StagCom Windows™ /DOS PC application software includes a high tech, true Windows environment and a simple to use production style DOS application. Windows has the advantage of its 'intuitive' way of working with icons and mouse and is arguably the simplest way to operate any of Stag's latest range of programmers, however both applications allow full remote control file transfer and full file management from a PC (desk or lap-top).

TECHNICAL SPECIFICATIONS

Device Support:
  - EPROMs, EEPROMs, FLASH & CMOS PROMs, Serial EEPROMs DIP in 8, 24, 28 & 32-pins with 0.3" and 0.6" pitch – to 8 Mbits

Device Library:
  - Internal, in non-volatile FLASH memory

RAM:
  - 4 Mbits battery backed (Programs to 8 Mbits in two blocks)

Emulation:
  - Internal high speed EPROM emulator up to 4 Mbits with an 'Edit While You Run' feature where permitted using the optional buffered emulator cable

Bit Modes:
  - 8, 16 and 32-bit modes: automatically handled by 'Interlace 2'

Display:
  - 4 line x 20 character, alphanumeric SuperTwist LCD provides interactive menu functions

Keypad:
  - Ergonomically designed, tactile, splash resistant, membrane keypad 24 key layout including all hex characters, functions and cursor

Ports:
  - Serial 9-pin D-type, RS232. Baud rate up to 115,200

I/0 Formats:
  - All popular including: Hex ASCII, Motorola, S-Record, Binary, TekHex Intellec, etc.

Remote Control:
  - As standard – conforming to Stag standard protocol StagCom Win PC software package available for enhanced operation under Windows™ or DOS

Power:
  - Internal rechargeable batteries – providing up to 30 hours use in edit mode Mains operation

from supplied charger unit. Fast boost charge facility

Size:

- 100mm x 180mm x 47mm (3.94" x 7.1" x 1.85")

Weight:

- 535 gm (1.18 lbs)

SYSTEM OPTIONS

- Orbit 32 with 4 Mbit RAM, PSU & Manual
- OrbBEC 32 Buffered Cable Kit for 24, 28 & 32 pin DIL
- StagCom Win

Windows™/ DOS PC Application Software

- CC 32 Soft Carrying Case

ENVIRONMENTAL

Humidity:

- 20-80% non-condensing

EMC Emissions:

- Complies with EN50081-1 class B & EN55022 class B
- FCC part 15 - sub part J class A

EMC Immunity:

- Complies with EN50082-1

Operating temperature:

- 0°C – 35°C

Battery charging temperature:

- 10°C – 35°C

Safety:

- Complies with EN60950, IEC950 & CSA C22-950

Leaders in innovation

For two decades Stag has been at the forefront of design and manufacture of high quality and reliable device programmers.

Today Stag Programmers carry forward this reputation in products ranging from Universal, Gang and In-Circuit Programmers to PLD Compilers and UV Erasers – and now hand-held and portable programmers.

We are dedicated to continuous research and development to maintain our lead in both product and software support so that our customers can keep pace with rapidly changing programmable device technology.

Worldwide sales and support

The Orbit 32 is backed by Stag's international network of exclusive professional sales and support agents.

To order on-line click [here](#)
or click here for nearest appointed [Stag sales office](#).

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