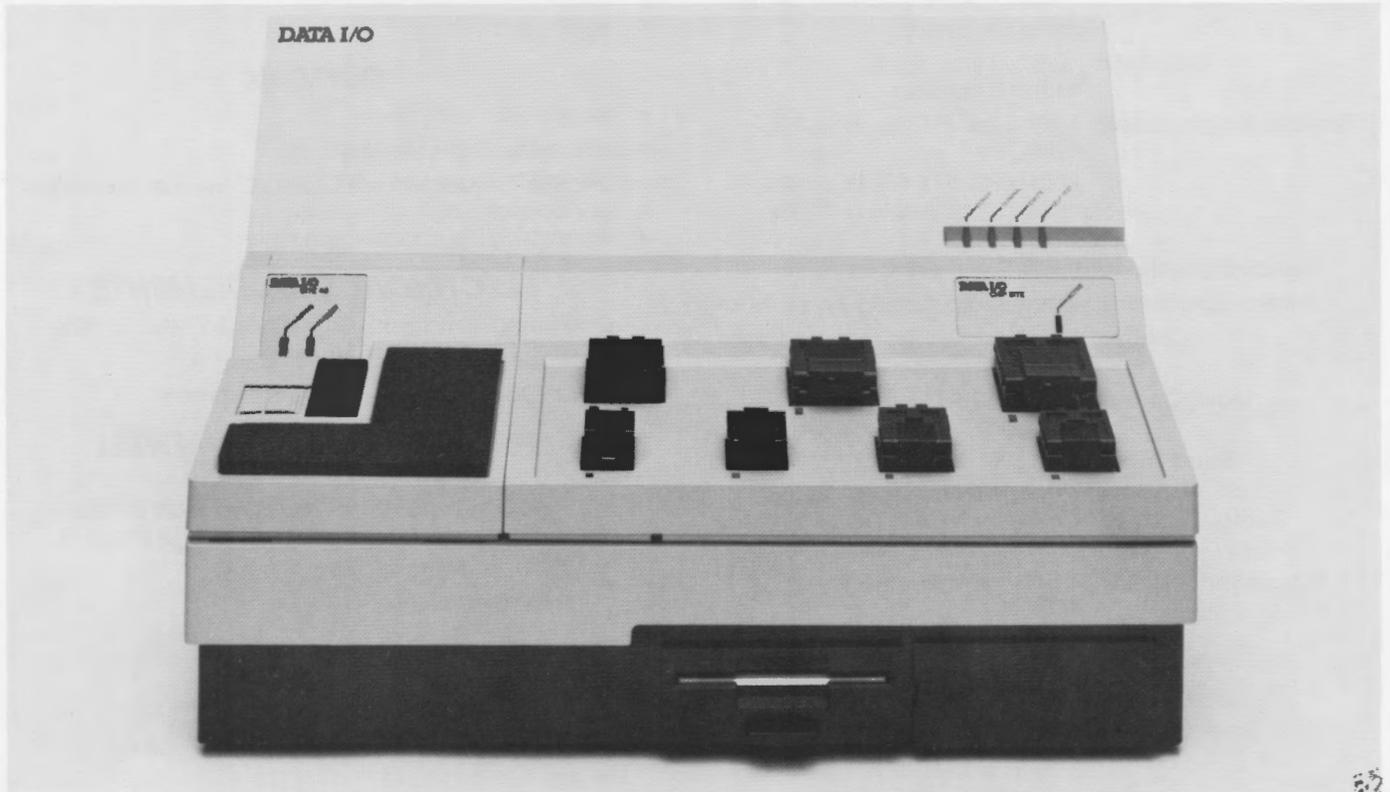


SPECIFICATIONS

UNISITE 40



GENERAL DESCRIPTION

The UniSite™ 40 is a state-of-the-art universal device site that delivers very high-speed programming and testing of virtually any programmable device inserted into the 40-pin DIP socket. An optional ChipSite™ module provides single site support for PLCC and SOIC surface mount device packages. Compatible with most popular ASCII terminals, the UniSite 40 includes SmartPort™ to simplify the physical interface with your computing systems.

The UniSite 40 is a software-driven instrument that maps the programmable device-specific functions (eg., manufacturer's pin assignments) to the universal pin driver electronics. Updates are as simple as replacing a 3½" micro diskette containing the new (software) device algorithms.

UniSite includes a sophisticated user interface to greatly simplify programmer setup and operation. Operators can exercise step-wise prompting menus via cursor selection or zoom directly to a desired operation by selecting key commands. And user data can be stored locally on the UniSite diskette.

FEATURES

- Single-site programming
- Single 40-pin DIP socket and optional PLCC & SOIC site
- Unmatched programming/testing performance
- Operation selection by menu or command
- Context-sensitive HELP
- User-installed updates (3½" micro diskette)
- Programs all currently marketed PROMs, EPROMs, EEPROMs, microcontrollers, PALs®, IFLs, FPLAs — over 1200 devices
- Programs all technologies: MOS, CMOS, ECL, bipolar, AIM, DEAP
- Accepts DIP, PLCC and SOIC device packages
- Software Update Service
- Local data storage

DATA I/O

FUNCTIONAL SPECIFICATIONS

General Architecture: Custom processing system including 16-bit microprocessor, universal pindriver electronics, and a custom parallel programming processor.

User RAM: 128k x 8 standard
512k x 8 optional

Devices Programmed: Memories: PROMs, EPROMs, EEPROMs
PLDs: PALs, IFLs, FPLAs, and microcontrollers in a single socket

Device Operations: Load, Program, Verify, Edit

System Operations: Transfer, File, Configure, Utilities

Display: Compatible with many popular ASCII terminals

Input/Output: Serial RS232C (dual ports standard)

Baud Rates: 300, 600, 1200, 1800, 2400, 4800, 9600, 19200

Remote Control: Compatible with Data I/O Computer Remote Control (CRC)

Translation Formats: 41 I/O formats including:

- Binary
- DEC Binary
- ASCII Binary
- 5-level BNPF
- Spectrum
- ASCII Octal/Hex
- RCA Cosmac
- Fairchild Fairbug
- MDS Technology
- Motorola Exorcisor
- Jedec logic format
- Intel Intellec 8/MDS
- Signetics Absolute Object
- Tektronix Hexidecimal
- Extended Tek Hex
- Motorola Exormax
- Intel MCS-86 Hex Object
- HP 64000 Absolute
- TI SDSMAC
- JEDEC Full Mode
- JEDEC Kernel Mode
- Motorola S-3

STANDARD ACCESSORIES

- RS232C cable plus gender changer
- User manual
- System software diskette and utilities diskette
- Power cord

OPTIONS

- Second 3½" disk drive
- 512k bytes total user RAM
- ChipSite™ module for PLCC/SOIC device packages
- Service manual
- Second RS232C cable assembly

ELECTRICAL REQUIREMENTS

Operating Voltages: 120VAC or 240VAC ± 10%

Frequency Range: 48-63 Hz

Power Consumption: 500 VA maximum

PHYSICAL/ENVIRONMENTAL SPECIFICATIONS

Dimensions: 18.06 x 43.48 x 36.20 cm
(7.11") x (17.12") x (14.25")

Weight: 24 pounds

Shipping Weight: 36 pounds

Operating Temperature: +10 °C to +40 °C
(+50 °F to +105 °F)

Transportation Temperature: -40 °C to +55 °C
(-40 °F to +130 °F)

Storage Temperature: +4 °C to +50 °C
(+40 °F to +122 °F)

Humidity: To 80% (noncondensing)

Operational Altitude: To 8500 meters

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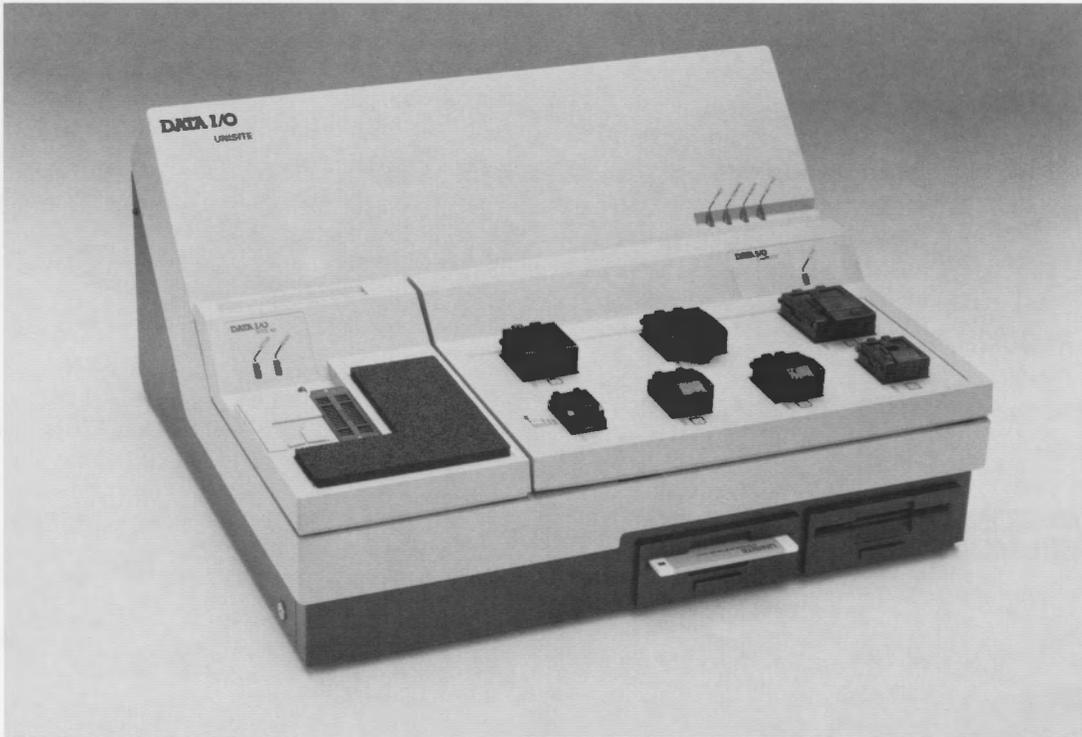
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DATA I/O

SPECIFICATIONS

CHIPSITE



GENERAL DESCRIPTION

Data I/O's ChipSite™ programming module for the UniSite™ 40 supports load, program, and verify operations of devices in JEDEC-standard Small Outline IC (SOIC), Plastic Leaded Chip Carrier (PLCC), and Leadless Chip Carrier (LCC) packages. This single module supports devices in SOIC packages with up to 28 pins and devices in PLCC or LCC packages with up to 68 pins.

The ChipSite module defines a new standard of simplicity for set-up and operation of programming devices in surface-mount packages. It provides a single site alternative to hardware adapters and fixtures needed to accommodate different device pinouts. PLCC and LCC packages (with 20, 28, 32, 44, 52, and 68 pins) are supported on the same site. Software updates are provided on 3½" micro diskettes through the Data I/O Software Update Service (the first 12 months of updates are included in the base product).

UniSite 40 users can quickly install the ChipSite module on top of the UniSite 40 programmer and benefit from both DIP and SOIC/PLCC/LCC package support without changing hardware fixtures between users or between operations.

FEATURES

- User-installable module
- JEDEC-standard socket sizes
- SOIC devices up to 28 pins
- PLCC devices with 20, 28, 32, 44, 52, and 68 pins
- LCC devices with 20, 28, 32, 44, 52, and 68 pins
- PLCC and LCC devices of the same pin count are programmed in the same socket
- QuickCopy™ for fast duplication of master devices
- Illegal bit check
- Continuity check
- Blank device check
- Yield tally (automatic audit trail) saved on diskette
- Local operation or via computer remote control

DATA I/O

FUNCTIONAL SPECIFICATIONS OF THE CHIPSITE MODULE

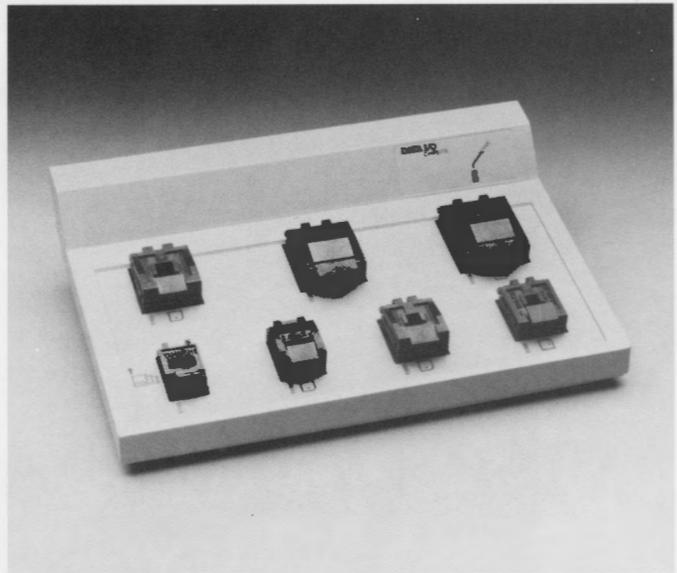
General Architecture:	The ChipSite module utilizes the universal pin driver electronics of the UniSite 40
User RAM:	128K Bytes (standard) one megabyte (optional)
Devices Programmed:	Any device and any technology in SOIC, PLCC and LCC packages
Remote Control:	Compatible with Data I/O computer remote control (CRC)

ELECTRICAL REQUIREMENTS OF THE UNISITE 40

Operating Voltages:	120VAC or 240VAC \pm 10%
Frequency Range:	48-63 Hz

PHYSICAL/ENVIRONMENTAL SPECIFICATIONS OF THE CHIPSITE MODULE

Dimensions:	29.92 cm x 21.23 cm x 4.77 cm (11.78" x 8.36" x 1.88")
Weight:	2.3 lbs.
Shipping Weight:	3.7 lbs.
Operating Temperature:	+10°C to +40°C (+50°F to +105°F)
Transportation Temperature:	-40°C to +55°C (-40°F to +130°F)
Storage Temperature:	+4°C to +50°C (+40°F to +122°F)
Operational Altitude:	To 8500 meters
Humidity:	To 80% (noncondensing)



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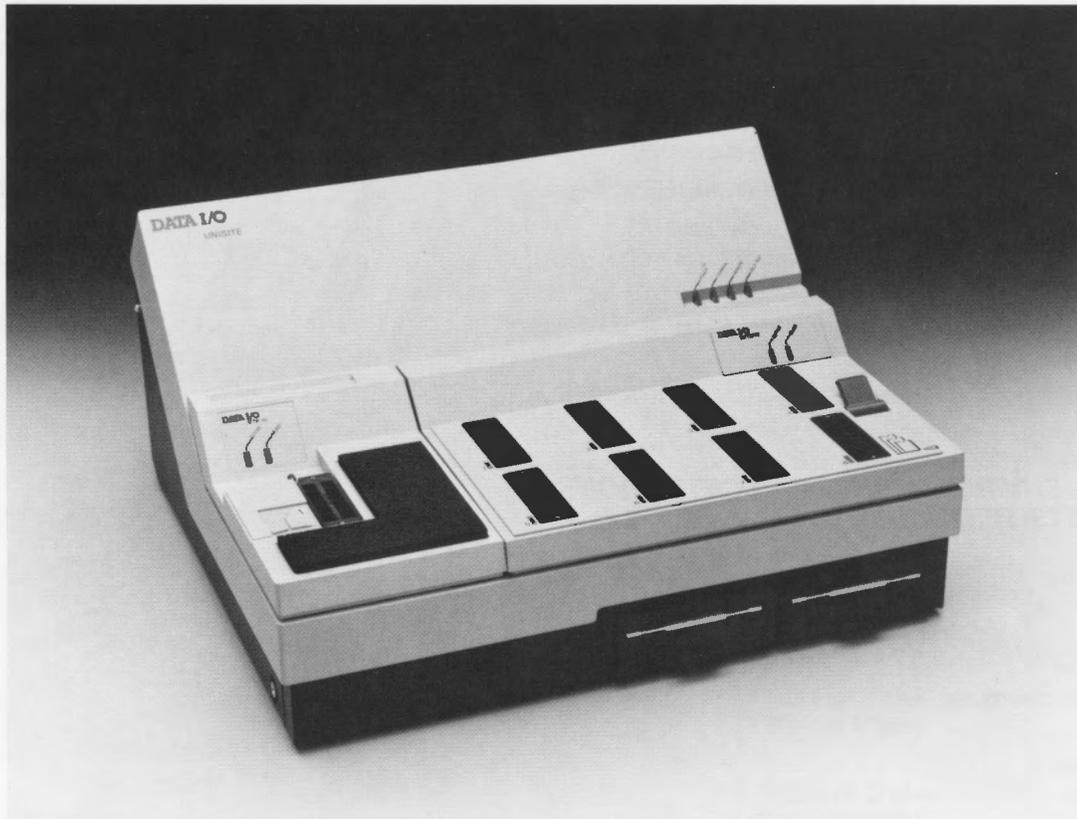
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DATA I/O

SPECIFICATIONS

SETSITE



GENERAL DESCRIPTION

Data I/O's SetSite™ is a UniSite™ 40 programming module that supports load, program, and verify operations of up to eight memory devices (up to 40 pins each) in a gang or set fashion. User data organized in word widths from 8 to 64 bits can be programmed in a set. The SetSite module is a parallel programming site that is consistent with the state-of-the-art technology first implemented in the UniSite 40. The UniSite 40 detects the presence of the SetSite module and presents special menus and prompts for gang and set operations to the user.

The SetSite module defines a new standard in simplicity of setup and operation of multiple device programming. Updates are provided through the Data I/O Software Update Service (the first year is included in the base product). The UniSite 40 comes with 128K bytes of user RAM standard and can be expanded to one megabyte (to support up to eight one megabit EPROMs simultaneously on the SetSite module).

UniSite 40 users can quickly install the SetSite module on top of the UniSite 40 programmer and benefit from both single device programming (up to 40-pin devices) and multiple device programming on the same instrument without changing hardware fixtures between users or operations.

FEATURES

- Eight skinny-wide 40-pin DIP sockets
- Up to eight one megabit EPROMs supported in gang or set fashion
- Unique "mass actuation" (or "start") lever (simultaneously opens/closes all sockets).
- Device protection when programming operations interrupted
- QuickCopy™ for fast duplication of master devices
- Illegal bit check
- Blank device check
- Backwards device check
- Device insertion (misjustification) check
- Electronic ID check
- Bulk erase of EEPROMs
- Yield tally (automatic audit trail)
- Local operation or via computer remote control
- Data organized in word widths from 8 to 64 bits programmed in sets
- Special display screens showing results by socket

DATA I/O

FUNCTIONAL SPECIFICATIONS OF THE SETSITE MODULE

General Architecture: Module contains custom gate arrays which utilize the parallel processing system and the universal pin driver electronics of the UniSite 40.

User RAM: 128K bytes (standard)
one megabyte (optional)

Devices Programmed: MOS/CMOS EPROMs/EEPROMs

Remote Control: Compatible with Data I/O computer remote control (CRC)

ELECTRICAL REQUIREMENTS OF THE UNISITE 40

Operating Voltages: 120 VAC or 240 VAC \pm 10%

Frequency Range: 48-63 Hz

PHYSICAL/ENVIRONMENTAL SPECIFICATIONS OF THE SETSITE MODULE

Dimensions: 29.92 cm x 21.23 cm x 4.77 cm
(11.78" x 8.36" x 1.88")

Weight: 2.8 lbs.

Shipping Weight: 3.7 lbs.

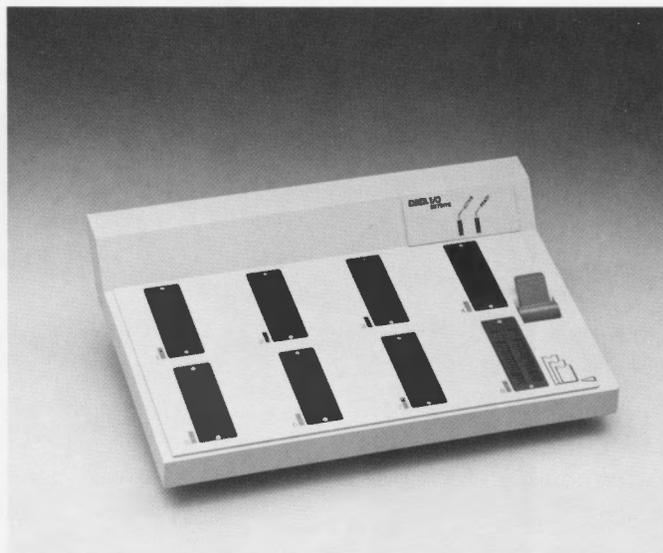
Operating Temperature: +10°C to +40°C
(+50°F to +105°F)

Transportation Temperature: -40°C to +55°C
(-40°F to +130°F)

Storage Temperature: +4°C to +50°C
(+40°F to +122°F)

Operational Altitude: To 8500 meters

Humidity: To 80% (noncondensing)



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DATA I/O

SPECIFICATIONS

UNIKIT HANDLER INTERFACE FOR UNISITE 40

GENERAL DESCRIPTION

The UniKit is a handler interface system that allows the UniSite™ 40 to interface to handlers supplied by Data I/O®, Delta, Exatron, and MCT. The UniKit is a PC-based system that allows the user to operate the UniSite handler system from a PC using the powerful HandlerLink software package. The UniKit architecture allows a handler to attach to the UniSite without altering existing UniSite hardware or software. The UniKit provides all interface hardware and software required to connect the PC, the UniSite and the handler. The UniKit system contains:

1. **UniSite/Handler Interface Hardware.** This hardware provides programming signals to the device at the handler test head and consists of the handler programming module, performance cable, and performance board. The programming module plugs into the UniSite in place of the 40-pin package-specific module. The performance cable connects the programming module to the performance board. The performance board attaches to the specific handler.
2. **Handler/PC Interface Cable.** This cable allows the PC to provide control information to the handler.
3. **PC/UniSite Interface Cable.** This cable allows the PC to communicate with the UniSite to access device setup information, statistics and job information.
4. **HandlerLink Software.** HandlerLink is the software that allows all parts of the system to communicate and operate correctly.



HANDLERLINK FEATURES

Task Control Utility. This feature allows the user to define part numbers, device types, device manufacturers, package types, device data, and programming sequences required to program devices.

Device Statistics. HandlerLink provides device statistics by part number, device type, and error type. It provides graphic representation of the pass/fail statistics in a bar graph format.

Setup File. The setup feature of HandlerLink allows the user to define handler bins, communications protocols and other parameters for defining a production environment. This setup can be saved on file for automatic job setup and control to minimize operator errors.

ORDER INFORMATION

Model Number	Description
UniKit	UniSite Handler Interface Kit

Note: Handler type (Data I/O®, Delta, Exatron or MCT) must be specified when ordering.

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