



ESA IUP-UXP

INTELLIGENT UNIVERSAL PROGRAMMER



ESA IUP-UXP is an advanced version of our earlier model ESA IUP-XP, which works through a PC's parallel port & USB port. It features a 48 pin universal pin driver and an expandable TTL pin driver. It supports over 7000 devices including PAL, GAL, CEPAL, EPLD, PEEL, MAX, MACH, PLSI, EPROM, MPU /MCU etc. ESA IUP-UXP works in various operating systems, Windows 9x/NT/2000 and XP.

MAIN FEATURES

- ★ Printer-port & USB port interface with auto - switch power
- ★ Supports 5V and 3.3V low voltage devices, 1.8V chip support through low voltage adapter
- ★ Programming speed for high density flash chip is less than 2 Sec / Mbit
- ★ No adapter required for DIL chips up to 48 pin
- ★ 48 pin universal pin driver with current limit protection
- ★ Auto-sense/Self programming with statistical report
- ★ Checks device insertion and pin contact
- ★ Optional Universal adapter for 44 pin PLCC / QFP / TQFP / PSOP and 40/48 pin TSOP
- ★ Supports Windows 9x, 2000,XP and NT
- ★ Automatic ID search for EPROM / Flash devices
- ★ Serialization for Memory / μ Pchips
- ★ Project file save /load function
- ★ User-selectable Vcc with one or two-pass verify voltage
- ★ Automatic file format detection and conversion
- ★ User-changeable programming parameters
- ★ Pin swapping table provided for user configurable adapters
- ★ CE & LVD certified
- ★ Software update via web

SPECIFICATIONS

SOCKET AND PIN DRIVER

48 pin DIL / ZIF socket with receptacle for 8 pin to 48 pin, 300 / 600 mil devices

Four DACs for Vcc, Vpp1, Vpp2 and Vpp3 with 8-bit resolution. Software controllable rise time and current limit protection

Logic driver supports pull-up / pull-down or high impedance on all 48pins with 2V-5Vlevel

DEVICE SUPPORT

Memory : PROM, EPROM, EEPROM, Flash, Serial PROM,NVRAM

Logic : PAL, GAL,CEPAL, CPLD,EPLD

Others : OTP / Flash Microcontrollers

DEVICE OPERATIONS

Read, blank check, device insertion / contact check, verify,checksum, EPROM ID check, compare, erase chip, program, memory protect, device configuration setting, device search,edit buffer, mass production mode, modify vector,serialization, H/L byte buffer swap, buffer search, etc.

FILE FORMAT CONVERSION

JEDEC, POF, Binary, Intel Hex, Intel EXT Hex, Motorola S, HP 64000ABS, Straight Hex and TEKTRONIC Hex, Automatic detection and conversion

PLD VECTOR TESTER

Accepts JEDEC test vectors up to 48pins 2500V/ μ sec.risetime

TECHNOLOGICAL INNOVATION AND PERFORMANCE LEADERSHIP

UNIVERSAL PIN DRIVER - NO ADAPTER REQUIRED FOR DIL DEVICES

ESA IUP-UXP features universal pin driver, each pin can supply four different voltages, ground, configurable as TTL high/low levels with pull-high/pull-low, high-speed clock and high impedance. This advanced pin design lets user to program any DIL device of upto 48 pins without an additional adapter

UNBEATABLE PROGRAMMING SPEED

ESA IUP-UXP's on-board intelligence reduces system overhead to a minimum. ESA IUP-UXP has 100% more performance than its predecessor ESA IUP; it can program an Intel's 32 M bit flash chip in less than 60 seconds

DEVICE INSERTION AND CONTACT CHECKS - NO MISTAKES !

ESA IUP-UXP performs device insertion and contact checks before it programs each device. It can detect poor pin contact and devices inserted upside down or in the wrong position. This function prevents expensive chip damage due to operator error

EPROM AND FLASH MEMORY ID DETECTION AND SEARCH

Many EPROM and Flash memories have a built-in device and manufacturer ID. ESA IUP-UXP can read the device's ID, which is useful to identify the original part nos. of devices that have had their part number accidentally (or intentionally) removed (this function is limited to 28 pin and 32 pin EPROMS and Flash memory devices only)

AUTO - SENSING AND SELF - PROGRAMMING

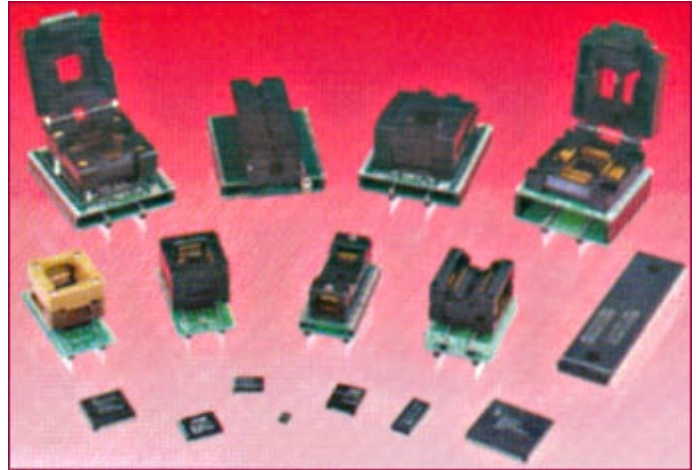
To meet mass-production requirements ESA IUP-UXP has implemented new patented technology in the Mass production Mode. Operator inserts a device into the ZIF socket, an LED (GOOD) on ESA IUP-UXP indicates the device is successfully programmed and the operator simply removes it and replaces it with a new one

USER-SELECTABLE VERIFY VOLTAGE, ONE OR TWO-PASS VERIFICATION

ESA IUP-UXP allows the user to select the verify voltage after programming the device, e.g., Vcc, Vcc $\pm 5\%$, Vcc $\pm 10\%$. The Vcc voltage can be 2.0V to 6.5V This feature ensures that the device has been programmed properly, preventing failures due to programming errors and ensuring data retention

NON-DIL DEVICE CONVERTERS

ESA IUP-UXP's universal pin driver capability lets the user program many devices of different packages beside DIL package, Such as PLCC, SOP, TSOP, QFP and SDIP. ESA IUP-UXP has 100 different optional adapters to support these special-package devices



UNIVERSAL ADAPTER

The universal pin driver on ESA IUP-UXP enables you to support all 44-pin PLCC / QFP / PSOP / TQFP chips such as EPLD, EPROM, Flash, and Micro-controllers. For example one 44 pin PLCC adapter supports all 44 pin PLCC devices, which eliminates the need to buy multiple adapters

PC SYSTEM REQUIREMENTS

Operating System	: Windows 95 / 98 / Me / 2000 / Windows XP or Windows NT
Processor	: Pentium and above
RAM	: 128MB Minimum
Hard disk	: 100MB free space
Interface	: Parallel port with EPP Mode or USB port
CD ROM drive	: 20x and above

GENERAL

Power	: 100 to 240VAC, auto - switching
Frequency range	: 47 to 63Hz
Power Consumption	: 25W
Operating Temperature	: 5 to 45° (41 to 113°F)
Weight	: 1.8 Kg (Approx)

OUR PRODUCT RANGE : Microprocessor Trainers for 8085, Z80, 6809, 8086/88, 68000; Microcontroller Trainers for 8031/51, 80C196 KB/KC, 68HC11, PIC Trainers, and Interface Modules; DSP Trainers ;Power PCs; In-Circuit Emulators; ROM Emulators; Microcomputer Development Systems; Universal Device Programmers; UV Erasers; PC compatible systems and Add-on Cards, AD/DA cards, DIO cards, Logic Analyzers, etc.; Microprinters; Printer support products and Software Development Tools.



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NOTE : Specifications are subject to change without prior notice