GSAS • **MICRO SYSTEMS**

ISO 9001:2015 CERTIFIED

ADVANTECH

GSAS IUP-UXP is an advanced version of our earlier model GSAS IUP-XP, which works through a PC's parallel port & USB port. It features a 48pin 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. GSASIUP-UXP works in various operating systems, Windows, 9x/NT/2000 and XP.

MAIN FEATURES

❑ Printer-port & USB port interface with auto switch power.
❑ Programming speed for high density flash chip is less than 2Sec /M bit.
❑ 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 / µP chips
❑ 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.
❑ Supports 5V and 3.3V low voltage device 1.8V chip support through low voltage adapter

FILE FORMAT CONVERSION

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

SPECIFICATIONS

SOCKET AND PIN DRIVER

❑ 48 pin DIL / ZIF socket with receptacle for 8 pin to 48pin, 300 / 600 mil devices.
❑ Four DACs for Vcc, Vppl, 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-5V level.

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.

PLD VECTOR TESTER

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

TECHNOLOGICAL INNOVATION AND PERFORMANCE LEADERSHIP

UNIVERSAL PIN DRIVER - NO ADAPTER REQUIRED FOR DIL DEVICES

This advanced pin design lets user program any DIL device of up to 48 pins without an additional adapter.

UNBEATABLE PROGRAMMING SPEED

GSAS IUP-UXP's on-board intelligence reduces system overhead to a minimum, it can program an Intel's 32 M bit flash chip in less than 60 seconds.

DEVICE INSERTION AND CONTACT CHECKS - NO MISTAKES!

GSAS IUP-UXP performs device insertion and contact checks before it programs each device. This function prevents expensive chip damage due to operator error.

EPROM AND FLASH MEMORY ID DETECTION AND SEARCH

GSAS IUP-UXP can read the device's ID, which is useful to identify the original part nos. of devices.

AUTO-SENSING AND SELF–PROGRAMMING

To meet mass-production requirements GSAS IUP-UXP has implemented new patented technology in the Mass Production Mode.

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

GSAS IUP-UXP allows the user to select the verify voltage after programming the device, e.g., Vcc, Vcc ±5%, Vcc ±10%.

UNIVERSAL ADAPTERS

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

(Specifications are subject to change without prior notice)
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