

MICRO-PRO 51

State-of-the-art programmer
for the 8051 family

Also programs many
SERIAL EEPROMS and
FLASH MEMORY DEVICES

**(1) Connects
to PC parallel
port...**

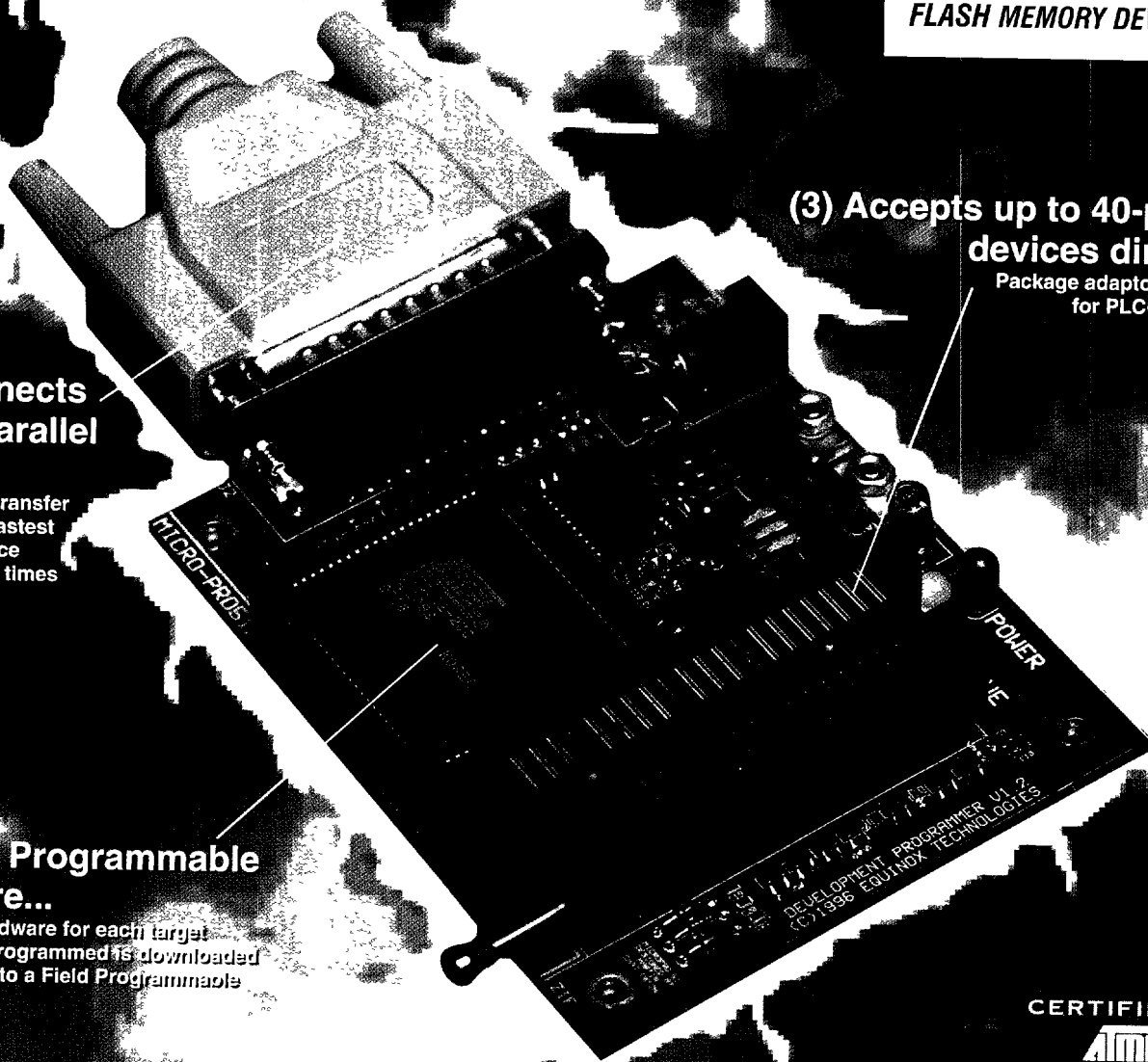
Fast parallel transfer
ensures the fastest
possible device
programming times

**(2) Field Programmable
Hardware...**

Optimised hardware for each target
device to be programmed is downloaded
from the PC into a Field Programmable
Gate Array

**(3) Accepts up to 40-pin DIL
devices directly...**

Package adaptors available
for PLCC, SOIC etc.



CERTIFIED BY



THE PROGRAMMER WITH A FUTURE

Programs on-chip code ROM of many 8051 Microcontroller derivatives

Re-configurable hardware allows new devices to be added
with a simple software update

FAST programming speeds due to optimised FPGA hardware for each target device

Optional microcontroller In-circuit Emulator (ICE) / re-programming module available

Compact design using Surface Mount Technology

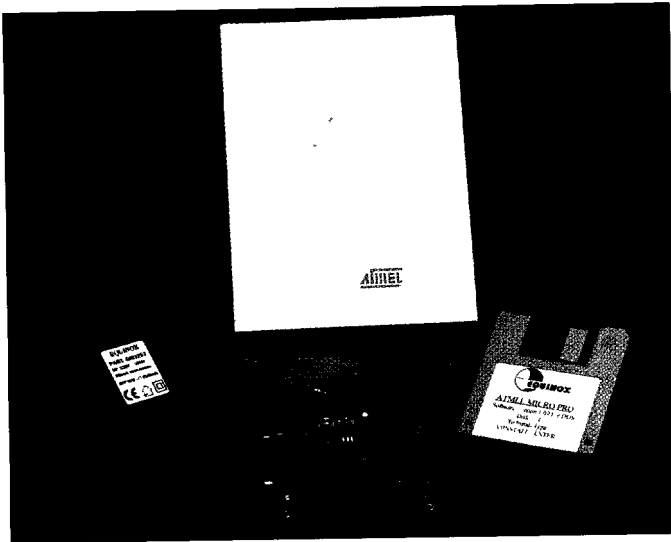
Designed and manufactured in the United Kingdom



"High-Tech Solutions for
a High-Tech World"

(More Information...)

HARDWARE/SOFTWARE UPGRADEABLE PROGRAMMER FOR THE 8051 MICROCONTROLLER FAMILY



Micro-Pro 51 Device Programming System

Hardware Specifications

Programmer Dimensions
105(w) x 80(d) x 24(h) mm
PSU 15V@250mA
(2.5mm plug, centre +)
Total package weight
typical) 1.5kg

- A. Micro-Pro 51 programmer
- B. PC Software on 3.5" HD diskette
- C. Power supply
- D. PC parallel cable
- E. Atmel Microcontroller Data Book

The programmer can be supplied with a choice of three PSU types

UK	3-pin	230V nominal @ 50 Hz
EURO	2-pin	230V nominal @ 50 Hz
US	2-pin	120V nominal @ 50/60 Hz

Comprehensive menu driven programming software

Powerful Buffer editor -

Colour coded buffer area displays HEX and ASCII values
Blank Check / Erase / View / Fill / Edit / Search / Copy / Goto

Comprehensive device programming commands -

Select / Guess / Check Signature / Orientation / Auto-Program / Blank Check / Erase / Program / Read / Verify / Secure

File commands -

· Load / Save / View - Intel HEX & binary formats

Hot Keys - A single key press performs multiple actions

Auto-Program Hot Key - Erase, program, verify & secure the current device (ideal for batch device programming)

· **Load Last Hot Key** - Automatically loads last file into the buffer area (Expedites the code development cycle)

Programming support for the following microcontrollers:

ATMEL 89C & 89 S FLASH-ROM 8051 microcontroller families
(AT89C-51/ 52 /55 / 1051 /2051 & AT89S8252 inc LV versions)
Generic 87C51 / 87C52 (including FA / FB / FC derivatives)
Dallas DS87C520, DS87C530 High-speed 8051 derivatives
New microcontroller device updates available via the Internet

Programming support for EEPROM & FLASH memories:

Atmel EEPROM family plus most compatible parts
(including 24Cxx, 25Cxx, 28Cxx, 59Cxx, 93Cxx)
· Most Atmel 5V FLASH memories

This library is available as an optional chargeable update

FAST Erase, Program, Verify & lock cycle:

· Atmel 89C1051 (1K) < 3 secs, 89C52 (8K) < 10secs
(Timings based on a DX4-100MHz PC)

Compatible with most PC's

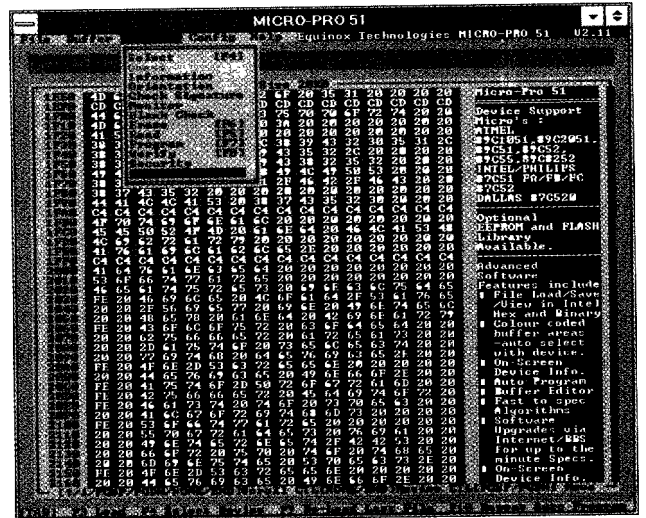
Runs on IBM XT up to Pentium PC
· Compatible with desktop and Laptop PC's
· Connects to a spare PC parallel port via cable supplied

Future proofing:

Field programmable hardware for future device upgradeability
· Support for new devices can be added via a software update
· Certain programmer environment / device upgrades are FREE and will be made available on our Internet Web page and via BBS

Optional programmer accessories:

· PLCC and SOIC package adaptors
· In-circuit emulator / re-programming adaptor for the Atmel 89C & 89S series microcontrollers



Product Ordering Details (including programmer accessories)

MP51-SYS	Micro-Pro 51 Device Programming System (Please state required PSU type when ordering: -UK, -EURO, -USA)
MP-LIB-MEM-1	Programming libraries for serial EEPROM's and FLASH memories (chargeable update)
AD-ICE-51	In-circuit emulator / re-programming adaptor for the Atmel 89C & 89S series FLASH microcontrollers
AD-PLCC44-A	PLCC-44 to DIL-40 package adaptor
AD-SOIC20-A	SOIC-20 to DIL-40 package adaptor

This document MP-01



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