

MQP Electronics

Pin-Master 48



Everything you need from a development programmer

Device Types

- Over 6500 device types
- Includes 3V parts
- EPROMs, EEPROMs, FLASH EPROMs and Emulators up to 48 pins
- PLDs and FPGAs including PALs, GALs EPLDs, MACH, MAX, etc
- Bipolar PROMs
- Microcontrollers, including PIC12', PIC16', PIC17', PIC18' families, CY7C63000, CY7C64000, CY7C65000, CY7C66000, families, HD64F' family, FZTAT family, COP8SA7x family, ST6 family, 8751 family, 8748 family, 85LPCxxx and 87LPCxxx families, 68HC705 family, 68HC711 family, 68HC908 family, 89C51 family, 78E51 family, 87C750 family, Z86E' family, TMS77C82, TMS370 family, C501, AT90S' family, AT89S' family, ATmega, ATtiny, PCD6002, PCD509x7 family, M3xxxx family, W77E', W78E' and W741' families, 75P', 78P', 70F', 78F' families, and many others from most manufacturers)

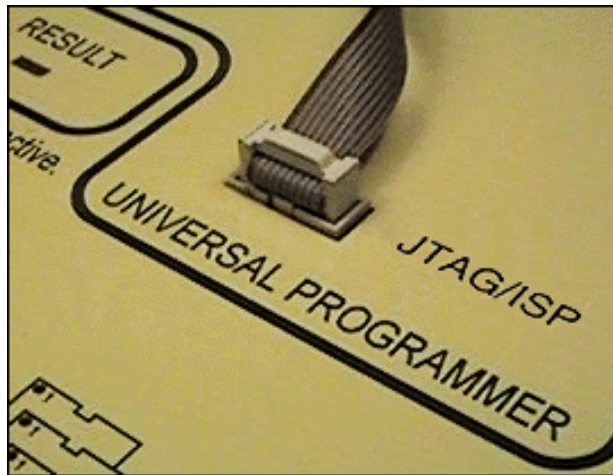
[Download full device list here](#)

Programming Modes

The Pin-Master 48 is fitted with a 48 pin universal DIL socket.

- Program virtually any DIP device (0.3" or 0.6" wide) directly in the ZIF socket - no adapters

- All other package types like PLCC, SOIC, QFP and TSOP are supported. MQP manufactures its own range of high quality package converters.
- **In-circuit programming of devices via dedicated JTAG / ISP connector**
[See Application Notes](#)



Software designed with you in mind.

MQP has for a long time set the standard in programmer driver software.

[PROMDRIVER](#) features:

- Fully integrated Windows object file editing environment
- Easy device selection with multilevel filters
- On-line device notes
- Context sensitive on-line help
- Batch mode for automated programming
- Automated Serial numbering

Software up-grades are free of charge from our web site.

Reliability

- Uses manufacturer approved algorithms
- Continuity/mis-insertion checks to ensure reliable programming
- Silicon Signature Checks
- Selectable Vcc levels on Verify
- Designed and manufactured in England
- Twelve month warranty
- Free software upgrades
- Earth Bonding Point supports Anti-Static handling systems conforming to EN100 015-1



Versatile Pin Drivers

Flexible design using re-configurable logic protects your investment and allows: any voltage on any pin; power supplies on any pin; programmable slew rates, voltage measurement on any pin.

File Formats

- Jedec
- Binary
- Intel 8/16/32 Bit Hex
- Motorola Hex (S1-S3)
- Intel 8080 Absolute Object
- Intel 8051 Absolute Object
- Intel 8086 Absolute Object
- Intel 286 Absolute Object
- Free Format Hexadecimal
- ...and others

Installation

Quick and easy with self-installing software. Simply connect to Parallel port of any PC compatible. No expanded/extended memory required. Ideal for Laptops and Notebooks.

Physical Specifications

Weight:	3 kg
Dimensions:	230 x 256 x 56 mm
Temperature:	0°C - 40°C
Humidity:	20% - 80% non condensing

Electrical Requirements

The Pin-Master 48 comes complete with an integral mains power supply, avoiding those annoying boxes in the supply cable.

Operating Voltages: 110 / 220 / 230 / 240 Volt.
Frequency: 47 - 66 Hz 25W
Power: 25VA

To allow mobile operation, it may also be powered from a 12V DC power supply (e.g. a car battery).

Operating voltage: 11-15V d.c.
Power: 25VA



Safety

Manufactured to meet the following safety standards: VDE0805, IEC950:1986, EN60950 and BS7002.

CE compliant.

Programming Speed.

Manufacturers of universal programmers are often reluctant to quote programming speeds, as universal often means slow. The Pin-Master 48 will blank check, program and verify a 1Mbit 27C010 in 19 seconds. This *includes* data transfer time.

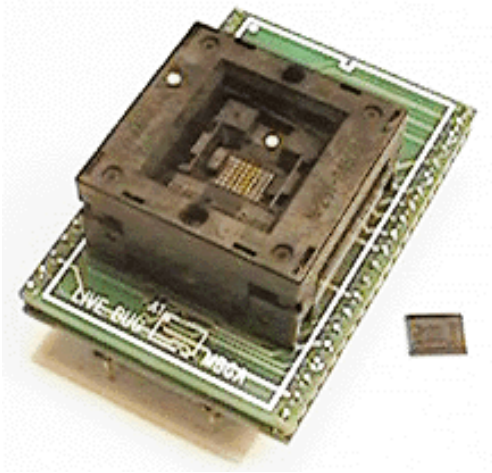
Standard Accessories

Pin-Master 48 comes complete with the following:

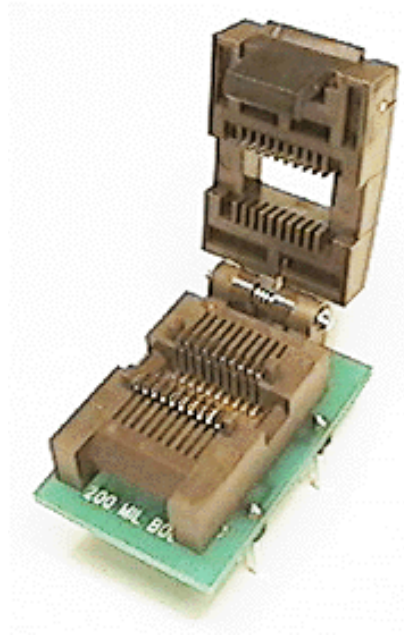
- PROMDRIVER control software on CD
- Parallel Cable
- Power cable
- Power plug for 12V operation
- Manual on CD

Optional Accessories

Comprehensive range of [package converters](#)



MBGA Adapter



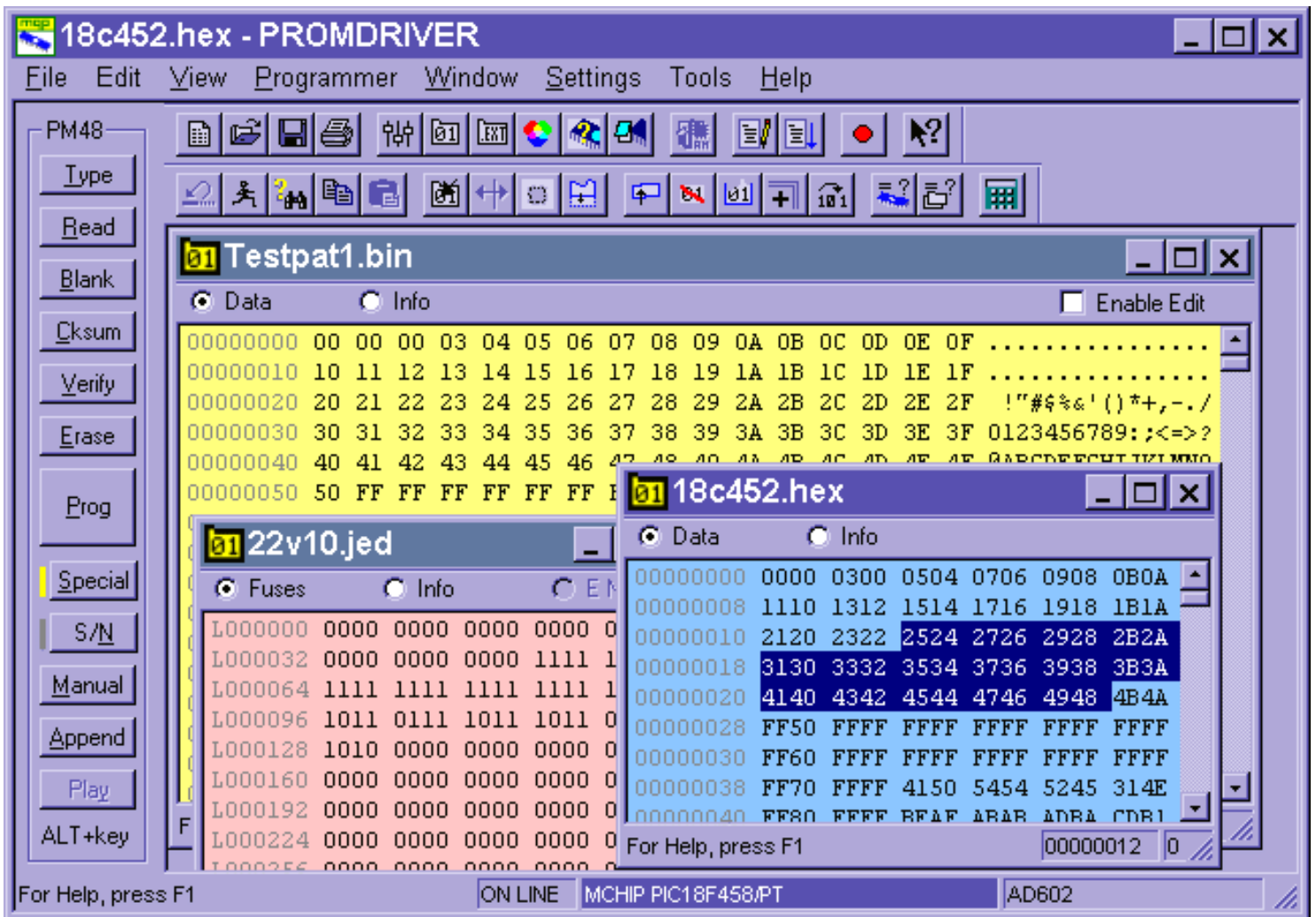
SOIC Adapter

System Requirements

- Any IBM PC/AT/286/386/486/Pentium or compatible
- CD ROM Drive
- Hard Disk Drive
- Windows 95 / 98 / ME / NT / 2000 / XP

Availability

- Ex stock



This range of Programming Equipment is manufactured in England to the highest standards by MQP Electronics. Our distributors should have no difficulty in supplying you quickly with any item. Specifications of our products can be found on our Web Site <http://www.mqp.com/>

If you require further information, our sales office will be pleased to advise. Our phone number is +44 1666 825 666.