

H8000 Programmer for H8-Series Microcontrollers



- No PC needed for programming, so easy and simple to use.
- The user can specify additional after-programming checks - checksum and /or CRC.
- Status LEDs for pass/fail/busy/fault.
- Compatible with both 3V and 5V external logic controllers. Optically isolated logic signals for each status LED.
- All signals are tristate when not in use to simplify ATE testing.
- Caters for target CPU with Vcc supplies from 1.8V to 5V.
- The programmer reads the Vcc of each target CPU, checks the Vcc is in range and then applies the correct logic levels.
- Supports processors with second Vcc.
- Three standard interfaces – 14 pin UPB, FDM / E10 and 20 pin E10T for 3048B.
- Developed for long term reliability of programmed parts.

Description

This programmer has been designed for high speed production programming of modern H8 flash microcontrollers. The programmer is small enough to fit in an ATE / production jig or it can be hand held. It can also be used for updating products in the field.

Programming can be started by pressing a button, automatically on connection to a target H8 or by a logic signal. The application program is held in an EPROM which can be fitted in the programmer in a couple of minutes. This method was chosen for simplicity and reliability.

The programmer interfaces to the product containing the target H8 using either Hitachi's standard UPB or E10 interfaces. Therefore the same interface can be used in production and development.

The programmer is supplied with a utility PC program so details about the target and H8 variant can be specified. For example, the crystal frequency and Vcc limits need to be defined. These details together with the required algorithm will be then stored in the H8000.

The H8000 is supplied with a universal (90V-264V) wall adaptor or it can be powered from a 9V DC external supply. It is supplied with programming algorithms for the popular H8/3664F. Other algorithms can be supplied as required.