



"Embedding thoughts into Technology"

Embin Technologies Private Limited
306, Sarita 2, Prabhat Industrial Estate,
Near Toll Naka, Dahisar East,
Mumbai - 400 068. India.
Tel : +91-22-28977128
+91-22-28977127
Fax : +91-22-28689486
Email : contact@embin.com
Website : www.embin.com

Secure Device Mass programmer

Client:

US based company.

Requirement:

To design and develop a gang programmer for Dallas 1-Wire serial EEPROM memory. The system should connect serially to a PC and allow a user to program upto 50 pieces of DS2502 (1KB) simultaneously within 1 minute.

Solution:

The programmer is based on an 8 bit microcontroller PIC18F8722. This particular IC offers high number of I/O pins. It connects to the PC through the serial port. A PC application controls the operation of the programmer. The programmer has a ZIF (zero-insertion-force) PCI socket which allows 'part holder' boards to be easily inserted for programming and removed after programming. The part holder PCB contains slots for 50 DS2502 parts and connects via a PCI bus. Using the PC application, each of the 50 memory parts can be programmed individually or all at one go. The PC application also reports blank, unused and erroneous parts. The user can edit the individual bits to be programmed in the memory. For each part to be programmed, a unique configuration file is created.

Tools/Platforms:

- » PIC18F8722
- » Microchip C18 V3.03
- » Microchip MPLAB ICD2
- » MPLAB IDE v7.40
- » Borland C++ Builder 6