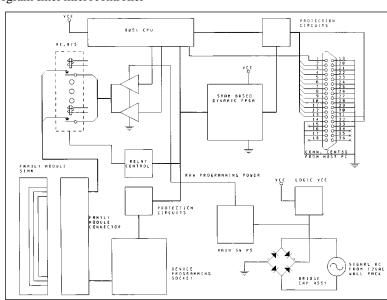
EMP-10

- Supports Most Intel 8051 Type Microcontrollers
- Standard Parallel Printer Interface
- Menu Driven Software
- Included Editor and Macro Functions
- Free Software Updates
- Unlimited Technical Support
- A Full Year Warranty

The EMP-10, at under \$225, is a limited capability system designed for the experimenter, student, hobbyist and light engineering. It's a small compact unit that will program most Intel 8x51 microcontrollers. In addition, it will program most memory devices and the 22v10 GAL. There is no planned upgrade. The main device programming station consists of a 40 pin ZIF that will handle wide or narrow pattern dual in-line devices. Adapters accommodate non DIP package types. Also in this area is the 'Family Module' connector. The devices that can be programmed at any given time are determined by which Family Module is installed. Family Module boards reconfigure supply voltage, ground and pin driver capabilities for different device families (i.e., architectures). The use of relays and discrete DAC controlled analog drivers provide power and grounds that are rock solid and as a result the EMP-10 can program Intel microcontroller

devices at near their theoretical maximum performance.

The operating interface, EMP, is DOS based or functions as a well-behaved DOS application under Windows*. The included buffer editor





allows the data to be placed exactly where you want it and provides HEX and ASCII strings as well as supporting SPLITS, SETS AND SWAPS. Included is a flexible macro facility allowing frequently used procedures to be stored, then executed with a key stroke.

The heart of the hardware design is an SRAM based dynamic FPGA. Supported devices all have a unique FPGA configuration file. It's downloaded to the programmer by EMP as part of the device selection process.

MICROCONTROLLERS SUPPORTED:

87C5x, 87C51Fx, 87C51Rx, 87C151Sx, 87C251Sx

DEVELOPMENT PLATFORMS: PC DOS, PC Windows

AVAILABILITY:

Now

CONTACT:

Needham's Electronics, Inc. 4630 Beloit Drive, Suite 20 Sacramento, CA 95838

Phone: (916) 924-8037 FAX: (916) 924-8065

e-mail: needhams@quiknet.com

Internet software updates:

ftp://ftp.quiknet.com/pub/users/needhams

BBS: (916) 924-8094

WWW: http://www.needhams.com

For international contacts, see Appendix B.

