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Find the *Needham Electronics EMP-11* at our website: ***Click HERE***

Needhams Electronics Inc

Your Source for Device Programmers



EMP-11 UNIVERSAL DEVICE PROGRAMMER

The EMP-11 programmer is a low-cost offering with windows support and low voltage capability. The small size of the unit offers extreme portability. The EMP-11 supports devices that include EPROM's, FLASH, 8051-style micros, Microchip PIC, and a multitude of other specialty devices. Relays and discrete DAC-controlled analog drivers provide power and ground connections. The EMP-11 also supports in-system-programming, via an adapter, on a number of devices.

- **Windows support**
- **DAC-controlled Analog Drivers**
- **Low voltage capability**
- **Special features of devices supported**
- **Package support includes but not limited to PLCC, SOIC, TSOP, SSOP, PSOP, BGA, DIMM, SIMM, TQFP, NTSOP, VQFP, PQFP and WSON**
- **Device support includes but not limited to EPROM, EEPROM, Flash Memory, Microcontroller's, CPLD's, PLD's and serial EPROM's**
- **In System programming support**
- **Low Cost**

Needhams Electronics Inc

SYSTEM REQUIREMENTS

To use the EMP-11, you must have the following:

Operating System:	For USB: An IBM-Compatible PC, Windows XP
Memory:	128MB of RAM Minimum
Hard Drive Space:	At least 40MB of free space
Interface:	Parallel Port Interface
Power:	12-16 Volts @ 1 Amp, AC or DC

INCLUDED ITEMS

- A standard Parallel cable
- A 40 pin Ziff Socket
- An AC 110V transformer (a 220V transformer at additional cost is available upon request)
- Numbers 111-114 Family modules are included with the EMP-11, in a small carrying wallet

STABILITY

- The EMP-11 carries a 1 year warranty on all parts and labor, and a 30 day money-back guarantee (restocking fee may apply).
- The EMP-11 is static-protected at the Ziff Socket, Family Module socket, Parallel port, and power connector.
- CE Compliant, for sale in the European Community.

HARDWARE

- Individual power supplies available.
- Relays provide superior isolation
- Logic voltage range from 2.2V to 5.5V
- High Voltage up to 25V
- Static protection on all socket pins
- Parallel port connection

SOFTWARE

- Supports device special features
- Automatic file type detection
- Algorithms approved or certified by device manufacturer
- Regular software updates

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