

NAME: V-0031-3051 OPEN CARD

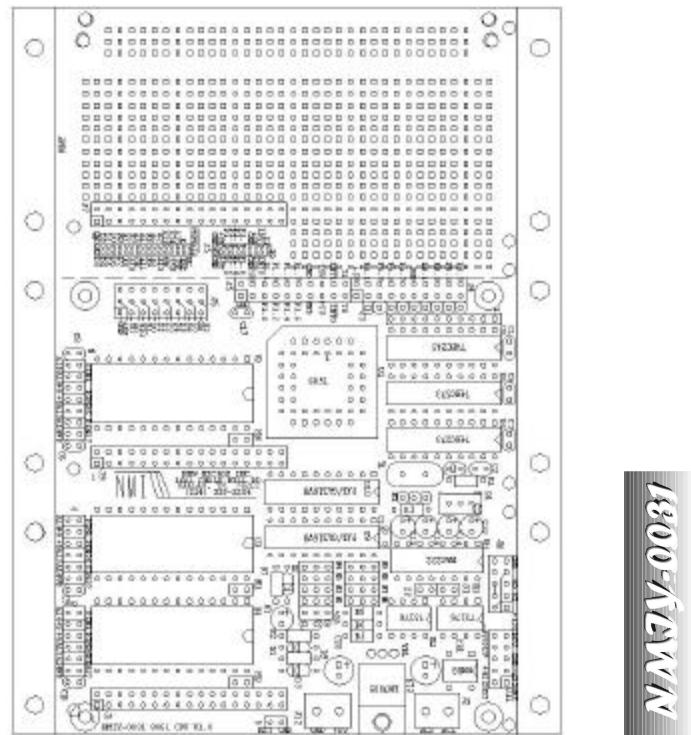
The NMIY-0031 is the 8051-based CPU board for the NMI “100 Squared”™ board series.

## FEATURES

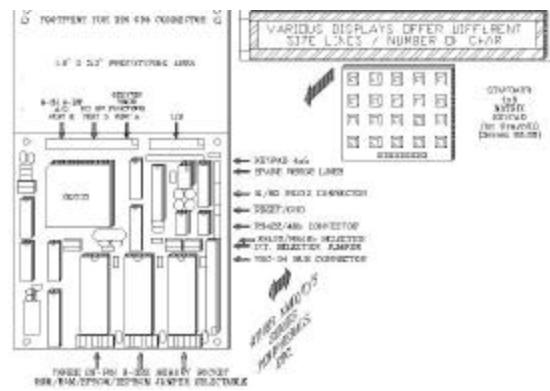
- 8031 CPU (8051 architecture)
- 1 parallel port
- Full Duplex Serial Ch. RS-232,422, or 485
- Two 16-bit timer/counters
- Boolean Processor
- 218 directly addressable bits
- 5 Interrupt sources
  - 2 ext., 2 timer, 1 serial
- 8K RAM
- 128K address space
- Three 28-pin JEDEC memory sockets
- Flexible address decoding, socket assignments
- Three 34-pin JEDSTACK™ Vertical Stacking Connector (VSC) sites
  - (Connectors available as option, or separately)
- With VSC's installed, acts as motherboard
- Prototype site accepts peripheral direct mount,
  - without needing VSC connector
- 8051 Monitor installed
- MaxTerm communications utility on disk
- Small C, Max-FORTH™, BASIC51 programming language on disk
- Manuals provided on disk
- Extensive applications examples in Small C, Max-FORTH™, BASIC51, Assmebly on disk

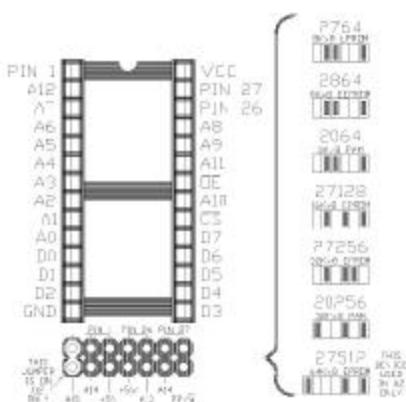
The NMIY-0031 is a complete system, ready to develop, or run, dedicated applications.

## Application

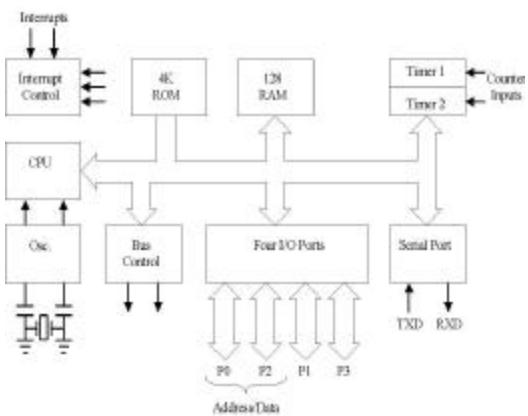


Actual size 121x160mm (~4.75x6")





28-Pin JEDEC Memory Sockets

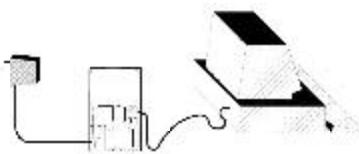


8051 CPU Block Diagram

Simply supply +5V regulated power, attach a host RS-232 port, and begin programming. Then, the user program can be held in RAM,

or by a user-supplied ROM/EPROM/EEPROM.

The NMIY series boards are compatible with most of the New Micros NMIX, NMIT, NMIL and NMIS series peripherals. The VSC-34 connectors have the same pin-outs on all of these boards. The 28-pin JEDEC memory sockets allow flexible memory configurations.



Personal computers with communications packages, can download source code to the NMIY-0031 via RS-232 ports. Interactive code development on the target system gives fast and efficient debugging. The optional languages gives machine level access.

The NMIY-0031 makes a very cost effective solution as a development system for the 8051. High Level Languages include: Small C, FORTH, BASIC and Assembly Language. FORTH and C cross compilers, and cross assemblers, are also available from third party vendors.