

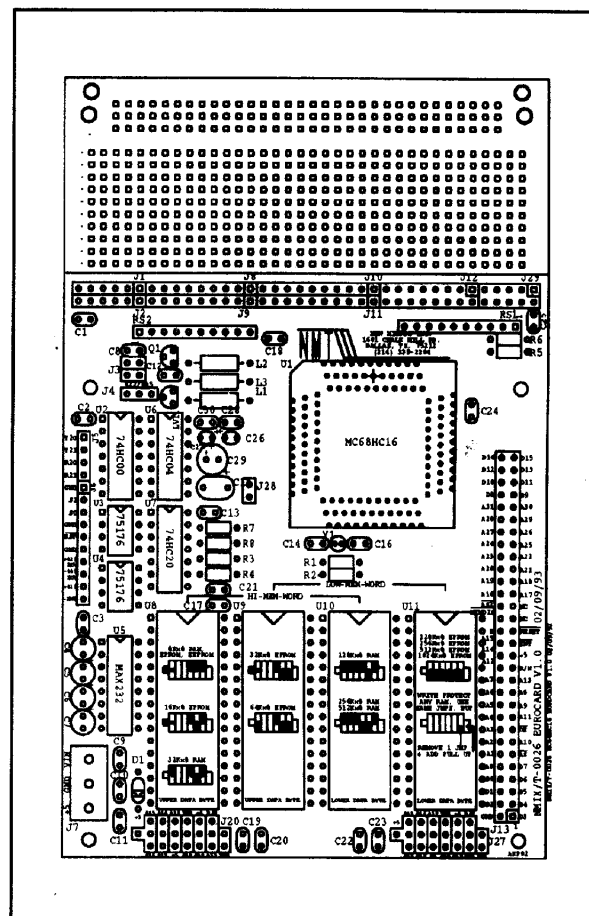
NMIX-0026 68HC16 CPU CARD

The NMIX-0026 is a highly featured, 68HC16-based CPU board in the NMI Eurocard board series.

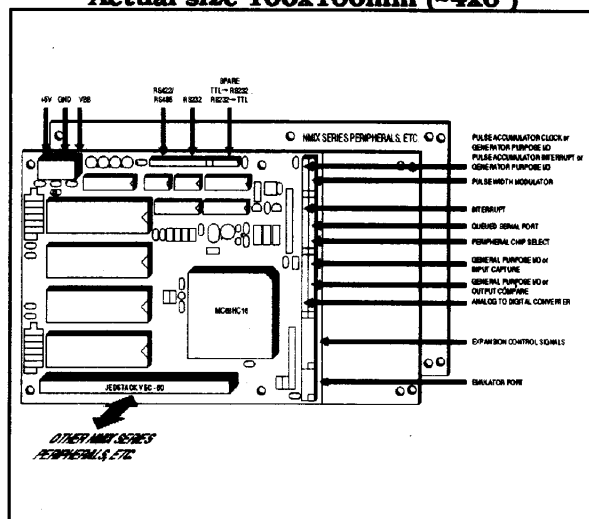
FEATURES

- 68HC16 CPU
 - 16.78 MHz operation from 32KHz osc.
 - Up to 1M program & 1M data space
- System Integration Module
 - Programmable chip selects
 - Watchdog timer, clock and bus monitor
 - 2 8-bit dual function parallel ports
 - 1 7-bit dual function parallel port
- 8/10-bit A/D
 - 8 channels, 8 result registers
 - 8 automatic modes
- Qued Serial Module
 - 1 Asynchronous Serial Ch. RS-232, 422, or 485
 - 1 Synchronous Serial Channel, TTL
 - 8-bit dual function port
- General Purpose Timer Module
 - 2 free running 16-bit timers
 - 3 or 4 input captures
 - 5 or 4 output compares
 - 1 pulse accumulator/event counter
 - 2 PWM outputs
 - 1 8-bit dual function parallel port
- Four 32-pin JEDEC memory sockets
 - Any 28-32-pin JEDEC device in any sockets
 - 1M PSRAM installed in two sockets, standard
- Battery backup circuits for memory
- 60-pin JEDSTACK™
Vertical Stacking Connector (VSC-60™)

The NMIX-0026-PS is a complete system, ready to develop, or run, dedicated applications. If a high level development language is installed, such as Max-FORTH™, simply plug in the supplied 5V, regulated, wall transformer, attach a host RS-232 port, and begin programming. The program can be held in its battery backed RAM, during testing. In final application, the user program can be added by a user-supplied ROM/EPROM/EEPROM.



Actual size 100x160mm (~4x6")



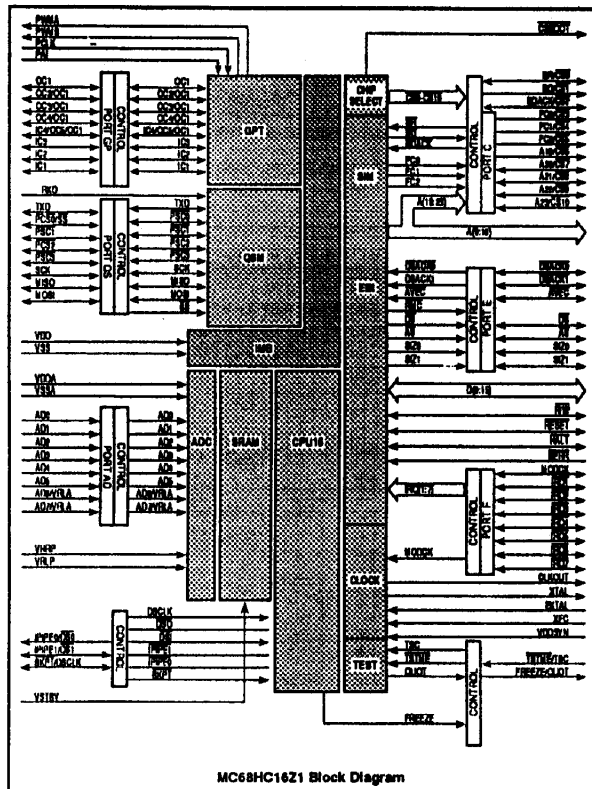
Application

NMIX-0026
68HC16 CPU CARD
"Eurocard"

NMIX-0026

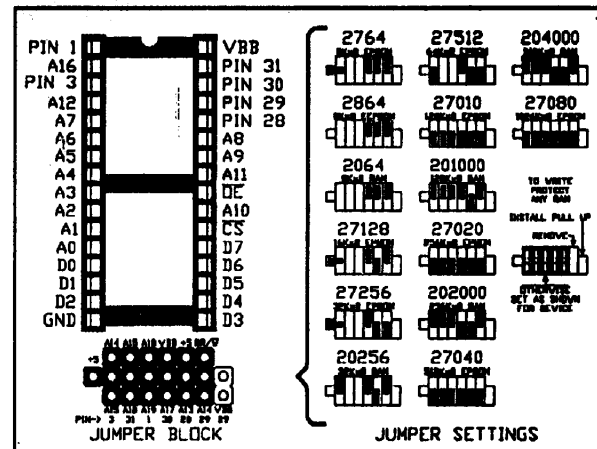
68HC16 CPU CARD

"Eurocard"



68HC16 CPU Block Diagram

The Eurocard series are excellent building blocks for designing multi-card systems, or stand alone single board computers. A small 1"x3.5" prototype area is provided on the end of the 100x160mm Eurocard format. Connectors and interface circuitry can be added there.



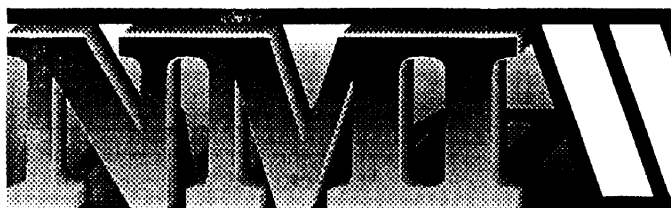
32-Pin JEDEC Memory Sockets

The NMIX-0026 is compatible with the New Micros NMIT and NMIS series computers. The 32-pin JEDEC memory sockets have the same pinouts on all versions. Refer to the figure above. The VSC-60 memory expansion connector is compatible with VSC-34 and VSC-44 models. Numerous 8-bit peripheral boards are available, including A/D and D/A's, optoisolated inputs and outputs, Solid State Relay cards, etc. They can be directly installed on the provided VSC-60.

The NMIX-0026 makes a cost effective system solution, particularly when 68HC16 features, CMOS low power, small size and development ease are factors. Planned High Level Language support includes FORTH, BASIC and Assembly Language. PC based C Compilers and Cross Assemblers are available from third party vendors.

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