



NMIX-0025 NEC V25 CPU CARD

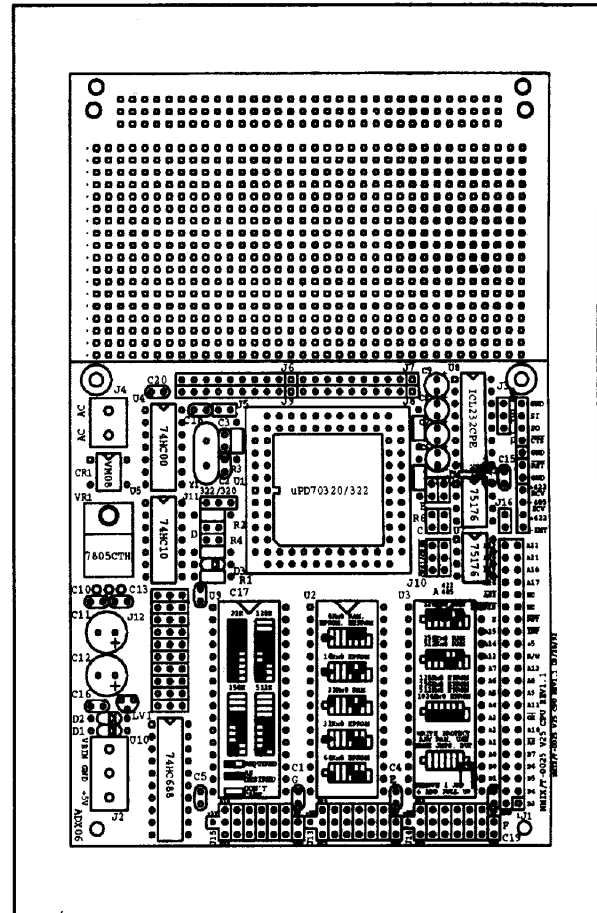
The NMIX-0025 is New Micros' NEC-V25-based CPU board for the 100 Squared™ series. A valuable feature of the NMIX-0025 is its code compatibility with the IBM PC's processor, offered on a Eurocard board format.

FEATURES

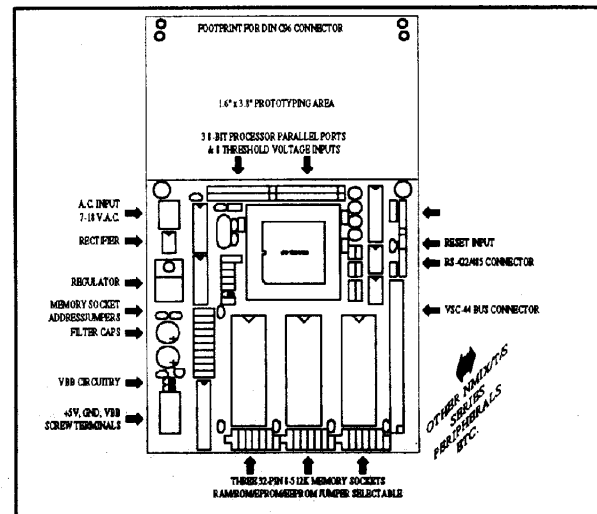
- V25 CPU with 16-bit internal architecture
- Software compatible with 8086/8088
- Programmable Interrupt Controller
- Two DMA controller channels
- 3 parallel ports
- 2 Asynchronous Serial Channels
- 8-channel Voltage Comparator
- Time Base Counter
- 16-bit Timer
- Programmable Wait State Generator
- 1/4K RAM internal to the processor
- 1M address space
- Three 32-pin JEDEC memory sockets
- Flexible address decoding, socket assignments
- Battery backup circuits for memory
- 44-pin JEDSTACK™ Vertical Stacking Connector (VSC-44)
- Low power (45mA w/2-32K RAMs at 8 MHz)

The NMIX-0025 is a complete system, ready to run dedicated applications. Only the addition of the user program is required, in its battery backed RAM, or in a user-supplied ROM/EPROM/EEPROM.

The 100 Squared™ series of computer boards were designed with low power operation and minimal size in mind. The 100 Squared™ are the perfect building blocks when designing systems or stand alone single board computers. They were named for their size, with 100x100mm of active component area, on a 100x160mm Eurocard format. The system is compatible with the New Micros NMIT and NMIS series computer peripherals.



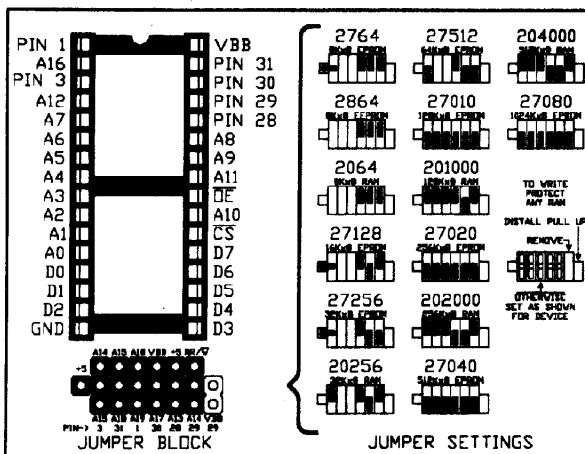
Actual size 100x160mm (~4x6")



Application

NMIX-0025 NEC V25 CPU CARD "100 Squared"

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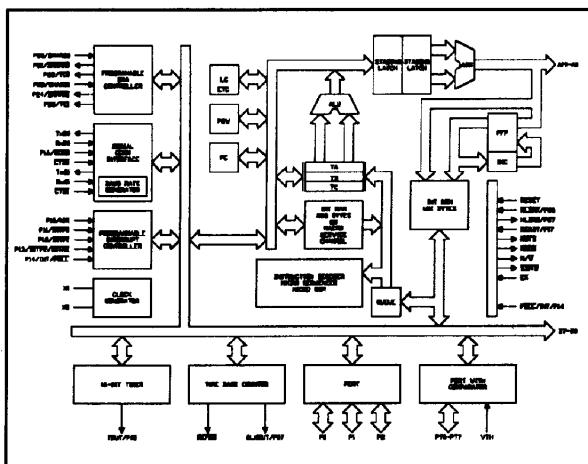
The sockets accepting JEDEC memory devices have flexible pinouts. Refer to the figure at the left. Two sockets cover the 1M address space, with 512K in the lower and 512K in the upper. This allows a full 1M of RAM to be installed on the board. The third socket's position and size in memory is selected by jumper setting. It can overmap the other sockets with a third device. A full memory configuration might have a psuedo-static 512K RAM in lower memory, a 128K static or psuedo-static RAM above that, with a ROM or EPROM overmapped in upper memory. This is similar to the normal PC setup with 640K RAM and 384K ROM.

Many NMIX and NMIS peripherals are available for the NMIX-0025. These include PC compatible Serial and Parallel Ports, as well as more exotic cards, such as Optoisolated Inputs and Outputs, A/D's and D/A's, Stepper and Servo motor Controllers, and LCD-keypad controllers. The VSC-44 provides the interconnection.

On board, one of the NMIX-0025's serial channels is configured for RS-232, the other for RS-422 or RS-485. The RS-232 channel is convenient for on-board code development, and the RS-422,485 channel for communications in embedded control environments.

The NMIX-0025 makes a very cost effective solution as a target system, particularly when small size, CMOS low power and ease of development are required. No other single board computer has these unique features in such a small space, and 8086 code compatibility. High Level Language support offers resident FORTH and, optionally, BASIC and Assembly Language. FORTH and C cross compilers and cross assemblers are also available.

JEDEC Memory Sockets



V25 CPU Block Diagram

WORLD HEADQUARTERS

WORLDWIDE REPRESENTATIVES

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