



# NMIS-0025 NEC V25 CPU CARD

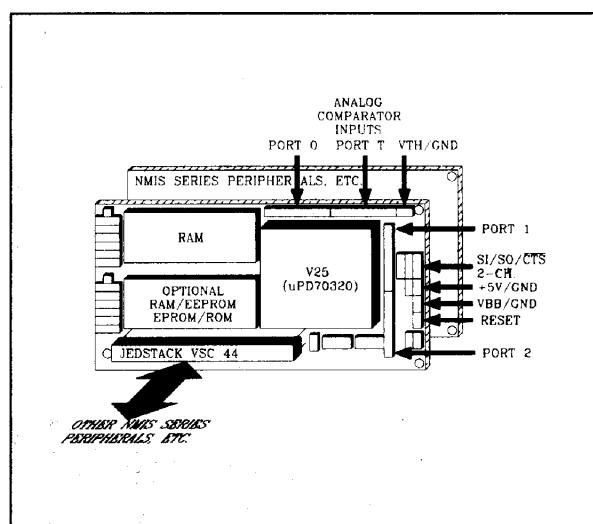
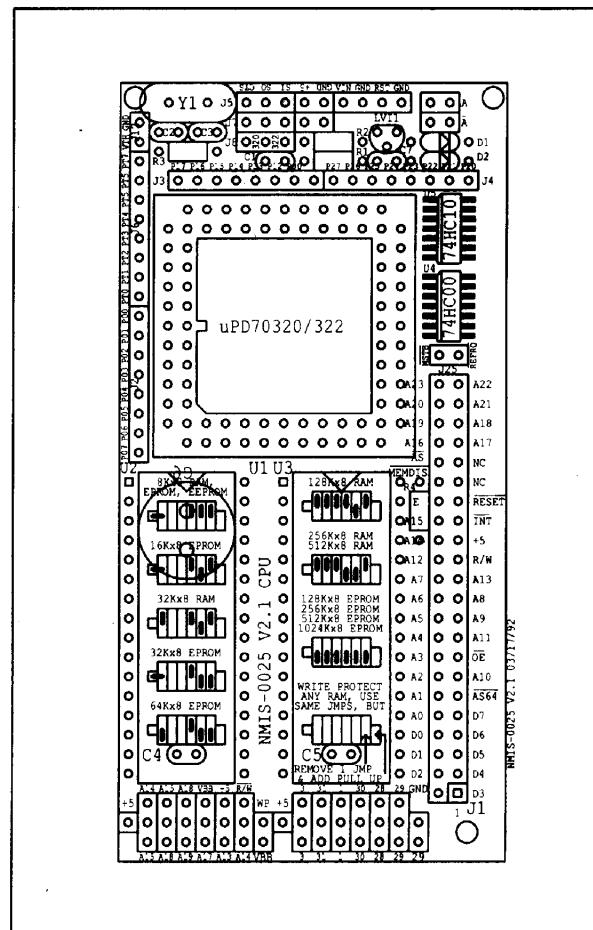
The NMIS-0025 is New Micros' NEC-V25-based CPU board for the 2x4"™ board series. A valuable feature of the NMIS-0025 is its code compatibility with the IBM PC's processor, offered on a miniature board format.

## 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
- 1M address space
- Two 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 NMIS-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 2x4"™ series of computer boards were designed with low power operation and minimal size in mind. The 2x4"™ are the perfect building blocks when designing systems or stand alone single board computers. They were named 2x4"™ for their size, 2 x 4 inches, and to emphasize their similarity in concept to the popular mechanical building block.

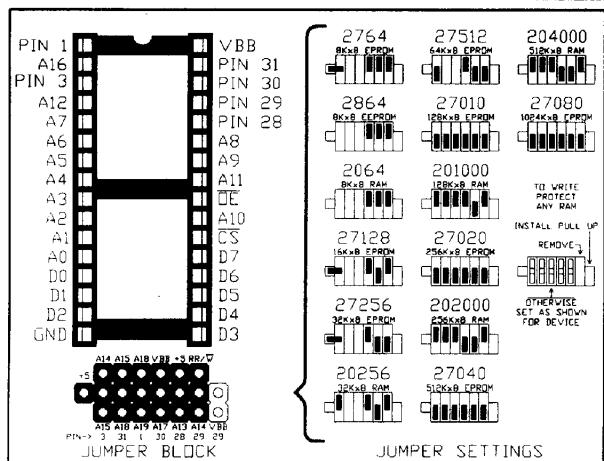


## Application

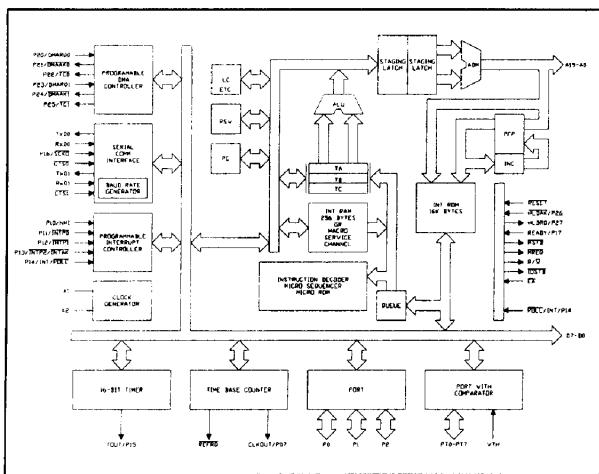
NMIS-0025

NEC V25 CPU CARD

2x4"™

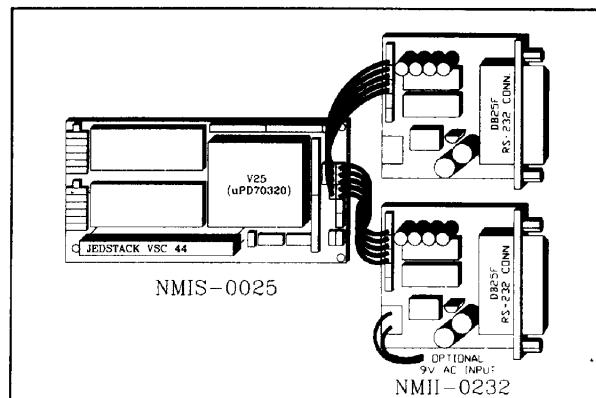


### JEDEC Memory Sockets



### V25 CPU Block Diagram

The sockets accepting JEDEC memory devices have flexible pinouts. Refer to the figure at the left.



### RS232 Connection

To download code to the NMIS-0025's processor, or interactively develop code, additional circuitry is needed to "talk" to the systems with RS-232. A level shifter must be used with terminals, or personal computers, with RS-232 ports to convert the TTL serial in and serial out to RS-232 levels. This can easily be accomplished with an NMII-0232 board. Refer to the figure above.

The NMIS-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.

#### WORLD HEADQUARTERS      WORLDWIDE REPRESENTATIVES

AMERICA (N, C & S)	CENTRAL EUROPE	SOUTHERN EUROPE	SCANDINAVIA	ASIA	RUSSIA
<b>NEW MICROS, INC.</b> Sales Department 1601 Chalk Hill Road Dallas, TX 75212, USA Phone: (214) 339-2204 Fax: (214) 339-1585 G3, G2, FMG1 User Bulletin Board: (214) 339-2321 24/12, N, 8, 1	<b>MS</b> Microscan Vertriebs GmbH Ueberseering 23 2000 Hamburg 60 <b>GERMANY</b> Phone: 0 40 / 6 32 32 14 Fax: 0 40 / 6 32 37 10	<b>DEMEL</b> G. Demel Handelsges, m.b.H. Hoffmeistergasse 8-10/1/4, A-1120 Vienna, AUSTRIA Phone: (0043) 0222 813 2507-0 Fax: (0043) 0222 85 95 93 Telex: 75311851	<b>FIELD OY</b> <b>ELECTRONIKKARYHMA</b> P O Box 131 SF 00601 Helsinki, FINLAND Phone: 358 0 757 1011 Fax: 358 079 8853 Telex: 12-2022 FIELD SF	<b>CIBI TRADING INT'L</b> 20 Matimian Street Teacher's Village, Diliman Quezon City, PHILIPPINES Phone: (632) 922-2988 Fax: (632) 921-8027	<b>TECHNOFORTH</b> 59, Bolshoi Pr., P.S., Leningrad, 197101, USSR Phone: (812) 233-86-21 (812) 233-34-10 Fax: (812) 233-86-21



**NEW MICROS, INC.**  
**1601 Chalk Hill Road**  
**Dallas, Texas 75212**  
**Tel: (214)-339-2204**