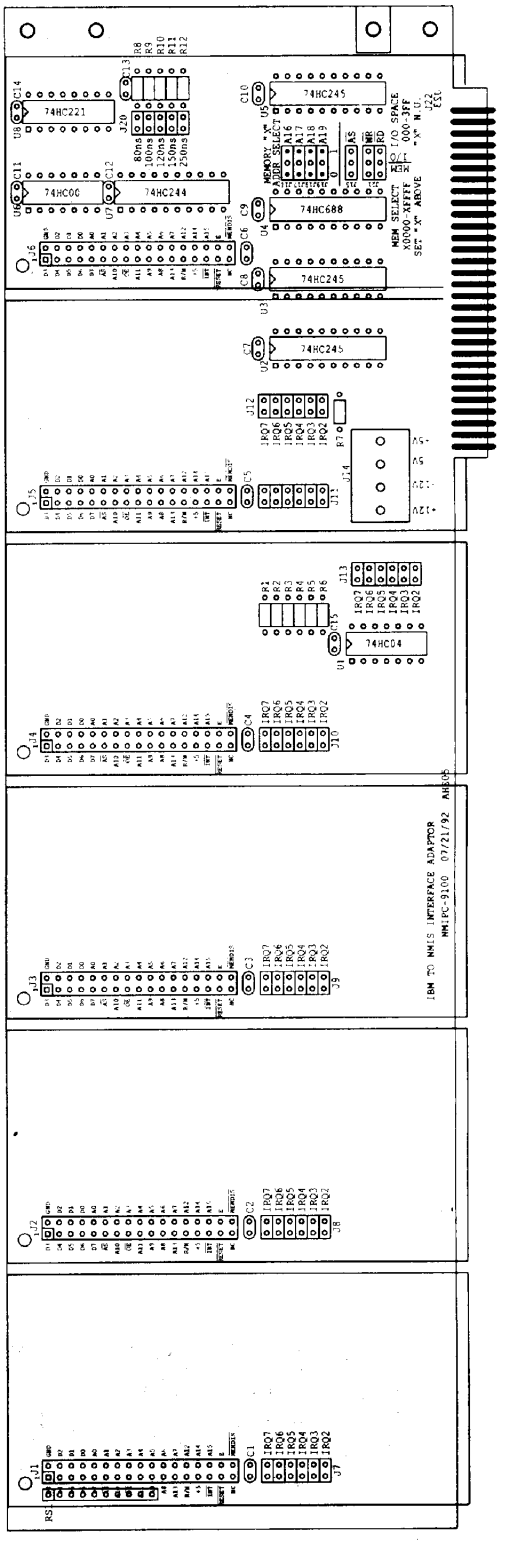
NMIP-9100 PC-TO-NMIS ADAPTER CARD

The NMIP-9100 PC-TO-NMIS Adapter Card, in full XT card format, provides a PC (ISA) bus access to 6 JED-STACK™ VSC-34 positions. This allows up to six stacks of NMIS 2x4"s™ to be added to a PC's (ISA) bus.

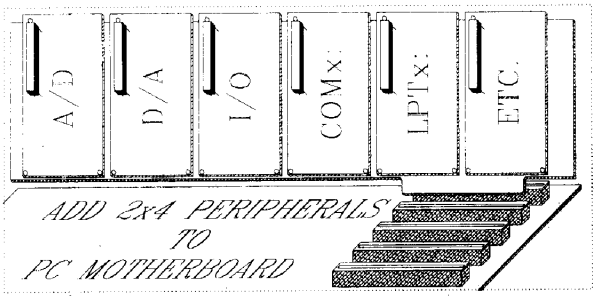


FEATURES

- Allows PC to use NMIS peripherals
- Up to 6 stacks of NMIS 2x4"s™ cards
- Memory or I/O decoding jumper selectable
- IRQ sharing for multiple Ser/Par on a IRQ, 2-7
- One NMIP-9100 can hold COM1-4 (plus more)
- Screw Terminals for +5V, -5V, +12V and -12V

The NMIP-9100 converts the ISA bus of an XT based computer to the NMIS VSC-34 JEDSTACK™ bus. With it, low-cost, small-size peripherals of the NMIS Series can be used inside a PC. The NMIS-9100 can be plugged into an open full length slot with six NMIS peripherals attached.

Six "Vertical Stacking Connectors" (VSC-34) are provided on the board. These connect the NMIS VSC-34 2x4"s™ peripherals to the PC's I/O bus (address and data bus, control signals, power and ground). They are regularly spaced to allow the NMIS 2x4"s™ to fit side-by-side with a .2" gap. This allows cabling to be run up between the 2x4"s™ cards. Each stack can have multiple cards attached. It is conceivable as many as 24 peripheral cards can be accommodated on one NMIP-9100. For instance, one NMIP-9100 with four serial ports and two printer port, 48 Solid State Relays, and 384 digital I/O lines would only take up one PC slot and the space above three others. Many peripherals can fit in a small space.



Application

NMIP-9100

NMIP-9100 PC-TO-NMIS ADAPTER XT Series

NMIP-9100 PC-TO-NMIS ADAPTER XT Series

DESCRIPTION

The NMIP-9100 PC-TO-NMIS Adapter Card is a full size XT card. The six VSC-34 are connected in parallel. All are driven from the PC bus interface circuitry. The control lines sent to the JEDSTACK™ VSC-34 connectors are selected by jumper to map the peripherals either in memory space or in the I/O space. When set for I/O space, the peripherals can be mapped anywhere desired in the 64K I/O space. (Other PC peripherals, however, may not be well decoded, so, 000-3FF is the common usage I/O space in PC's.) When set for address space, the peripherals can be mapped at any of the 64K boundaries in the 1 Meg address space of the PC, from 0xxxx-Fxxxx. Four 2-position jumpers select the starting address boundary. (Dxxxx is available on many PC's.) The 16-bit address bus is driven by two octal buffers. The address lines are always driven to represent the address presented on the PC's lower 16 address lines. The 8-bit data bus is buffered from the PC bus by an bi-directional octal buffer. The buffer is only enabled when a 2x4"™ indicates its address is being accessed.

Interrupt lines IRQ 2-7 can be assigned to each VSC-34 stack independently. Each stack can have a unique interrupt line, or on the other hand, all can be assigned to only one selected line. This gives flexibility not provided on the ISA bus design - true interrupt sharing. The ISA limit of two COM:s is easily overcome.

Many different NMIS perpipherals are available. They can be ordered with full height VSC's, or, with -P suffix (NMIS-xxxx-P) for shorter top-of-stack cards, that stack down only. This option may reduce the PC slot's taken.

NMIP-9100

Many 2x4" peripheral can be used with PC

NMIS-1055 24-BIT I/O BOARD, (82C55 BASED)

NMIS-3000 32-CH INPUT 32-CH OUTPUT BOARD

NMIS-3003 64-CH INPUT BOARD, (74HC573 BASED)

NMIS-3004 64-CH OUTPUT BOARD, (74HC574 BASED)

NMIS-3005 LPT: PRINTER PORT (PC COMPATIBLE)

NMIS-3010 8-CH HIGH CURRENT SOURCE BOARD

NMIS-3020 8-CH HIGH CURRENT SINK BOARD

NMIS-4001 1-4 CH 12-BIT D/A BOARD, (AD7248 BASED)

NMIS-4004 1-8 CH 12-BIT A/D BOARD, (AD574 BASED)

NMIS-4010 1-CH 16-BIT A/D BOARD, (CS5501 BASED)

NMIS-4013 1-CH 20-BIT A/D BOARD, (CS5503 BASED)

NMIS-5005 COM: SERIAL PORT (82C50 PC COMPATIBLE) RS232

NMIS-5008 8-CH SERIAL COMM BOARD, (SCC2698 BASED) TTL

NMIS-7000 16-CH OPTO ISOLATOR INPUT BOARD

NMIS-7001 16-CH OPTO ISOLATOR OUTPUT BOARD

NMIS-7003 OPTO ISOLATOR BOARD W/8-CH INPUT, 8-CH OUTPUT

NMIS-7011 8-CH SOLID STATE RELAYS BOARD, 400VAC @1.5A

NMIS-7022 8-CH MECH RELAYS, SPST, 250VAC @ 8A, 30VDC @ 8A

NMIS-7040 4-CH STEPPER MOTOR CONTROLLER (SAA1027)

NMIS-7056 1-CH 3 AMP SERVO MOTOR DRIVER (LM629 BASED)

NMIS-9002 3-CH 16-BIT COUNTER BOARD

NMIS-9003 REAL TIME CLOCK BOARD, (RTC 62421A BASED)

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