NMIM-0006 MOTHER BOARD

The NMIM-0006 Mother Board provides bus interconnection and a mounting base for up to three NMIS-xxxx 2x4"s™ or NMIL-xxxx boards laid horizontally, or, up to six NMIS-xxxx-DR 2x4"s™ mounted vertically.

FEATURES

- Secure mechanical mounting of NMIS(L) cards
- Convenient mounting holes for chassis mount
- Flexible card mounting schemes allow:

  3 NMIS-xxxx cards mounted horizontally

  3 NMIL-xxxx cards mounted horizontally

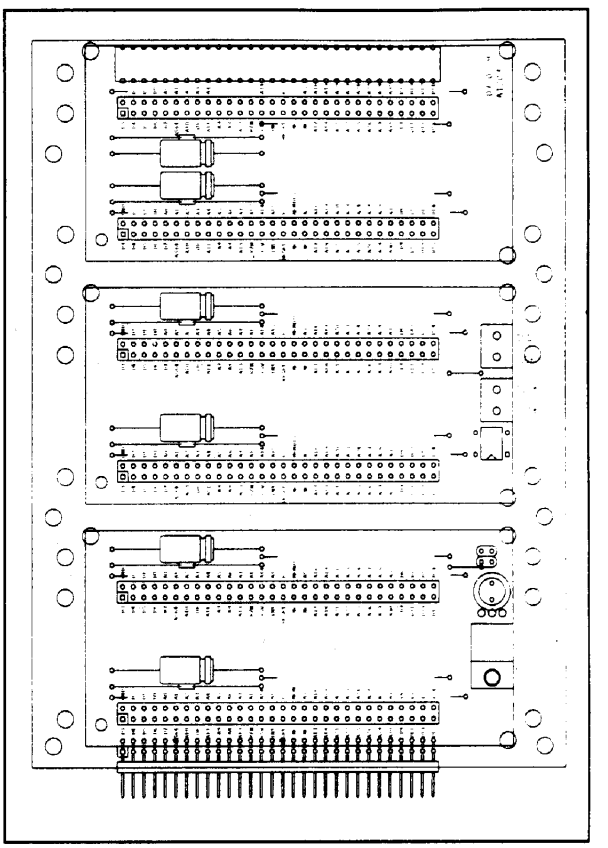
  6 NMIL-xxxx-DR cards mounted vertically
- Flexible configurations can be ordered for:

  3 or 6 VSC-34 JEDSTACK™ connectors

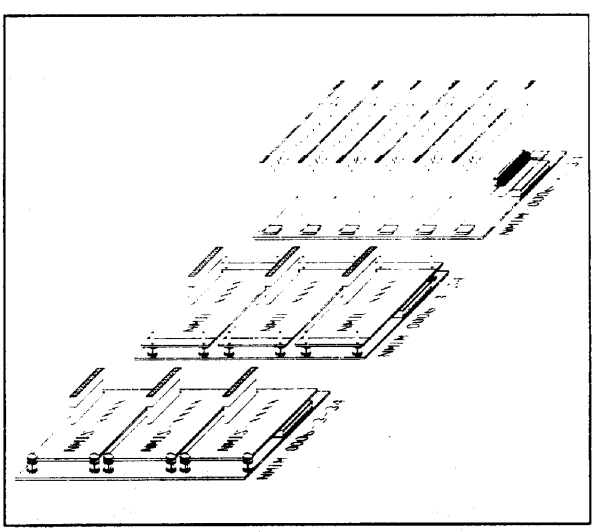
  3 or 6 VSC-44 JEDSTACK™ connectors

  3 or 6 VSC-60 JEDSTACK™ connectors
- Easy access to NMIS card during development
- End-to-end stackable for larger mother board
- 7-18VAC to 5VDC power supply
- Screw Terminals for +5V and GND
- Screw Terminals for 7-18VAC AC supply

The NMIM-0006 provides a interconnect and mounting system for the NMIS (2"x4") and NMIL (2"x4.75") cards. Six "Vertical Stacking Connectors" (VSC-34, 44 or 60) are provided on the board. These connect the NMIS, or NMIL, cards to the bus (address and data bus, control signals, power and ground). They are regularly spaced to allow the NMIS-xxxx, or NMIL-xxxx, cards to fit horizontally, or, NMIL-xxxx-DR vertically. Cards placed horizontally lie side-by-side with a .250" gap. This allows cabling to be run up between the 2x4"s™ cards. It also allows a NMIS stack of cards to be "spread out" for easy access during development. Cards placed vertically lie back-to-front. Card-to-card spacing is 1.125". (In this case, no additional cards can be stacked.) Additional NMIM-0006 mother boards can be end-stacked to give larger mounting capacity. Either way, many peripherals can fit in a small space.



Actual size 5" x 6.75"



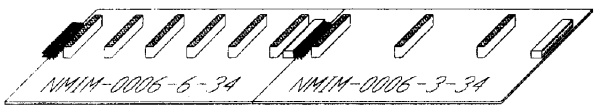
Application

NMIM-0006

NMIM-0006 MOTHER BOARD 2x4"s

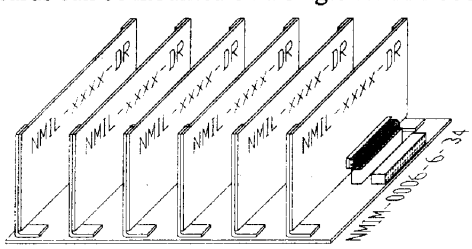
DESCRIPTION

The NMIM-0006 Mother Board has three, or six, VSC's connected in parallel. Wiring is "straight through" for all connectors. In addition, a pair of right angle connectors, one at each end, are similarly connected to allow end-to-end stacking of NMIM-0006 Mother Boards, to provide additional "mounting slots".

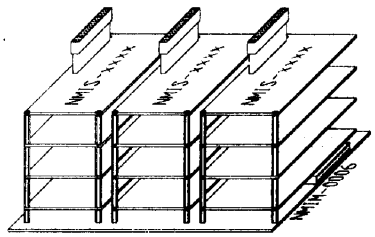


Many different NMIS 2x4"s™ CPU's and peripherals are available for use with the NMIM-0006. They can be ordered with full height VSC's, or, with -D suffix (NMIS-xxxx-D) for shorter top-of-stack cards, to stack down only. (This can reduce overall package height.)

NMIL versions are also available. The NMIL boards share the same layout with their NMIS counterparts, but are slightly longer. An added 3/8 inch mounting tab at each end gives a total length of 2" x 4-3/4". The NMIL boards can also be ordered with a -D suffix, or, a -DR suffix (NMIL-xxxx-DR) for vertical mounting. Six of the -DR cards can be mounted on a single NMIM-0006.



Each stack based on the NMIS-xxxx or NMIL-xxxx cards can have multiple cards attached. It is conceivable a dozen or more cards (depending on bus loading) can be accommodated on one NMIM-0006.



Mounting hardware is provided with each NMIM-0006 to mount NMIS or NMIL boards. Hardware for multiple levels of stacking is not supplied, but available.

The NMIS and NMIL boards may need one of three sizes of VSC's - VSC-34, VSC-44 or VSC-60 depending on the size of the bus of the CPU card. This leads to a matrix of ordering configurations for the NMIM-0006

Size of VSC vs. # of VSC	VSC-34	VSC-44	VSC-60
3 Connectors	NMIM-0006-3-34	NMIM-0006-3-44	NMIM-0006-3-60
6 Connectors	NMIM-0006-6-34	NMIM-0006-6-44	NMIM-0006-6-60

Screw terminals feeding a rectifier, regulator and filter caps are provided on the board. An off-board step-down transformer, such as a wall pack, providing 7-18VAC, can, thereby, power the regulated 5VDC needs of most 2x4"s™ cards. Up to 1A can be drawn from the 5V supply. Terminals are provided for an external 5V supply, if the on-board supply is not desired.

NMIM-0006

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AMERICA (N, C & S)	*CENTRAL EUROPE*	*SOUTHERN EUROPE*	*SCANDINAVIA*	*ASIA*	*RUSSIA*
NEW MICROS, INC. 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	**MS** Microscan Vertriebs GmbH Ueberseering 23 2000 Hamburg 60 GERMANY Phone: 0 40 / 6 32 32 14 Fax: 0 40 / 6 32 37 10	**DEMEL** 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	**FIELD OY ELECTRONIIKKARYHMA** P O Box 131 SF 00601 Helsinki, FINLAND Phone: 358 0 757 1011 Fax: 358 079 8853 Telex: 12-2022 FIELD SF	**CIBI TRADING INT'L** 20 Matimtiman Street Teacher's Village, Diliman Quezon City, PHILIPPINES Phone: (632) 922-2988 Fax: (632) 921-8027	**TECHNOFORTH** 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