NMIS-0016 80535 CPU CARD

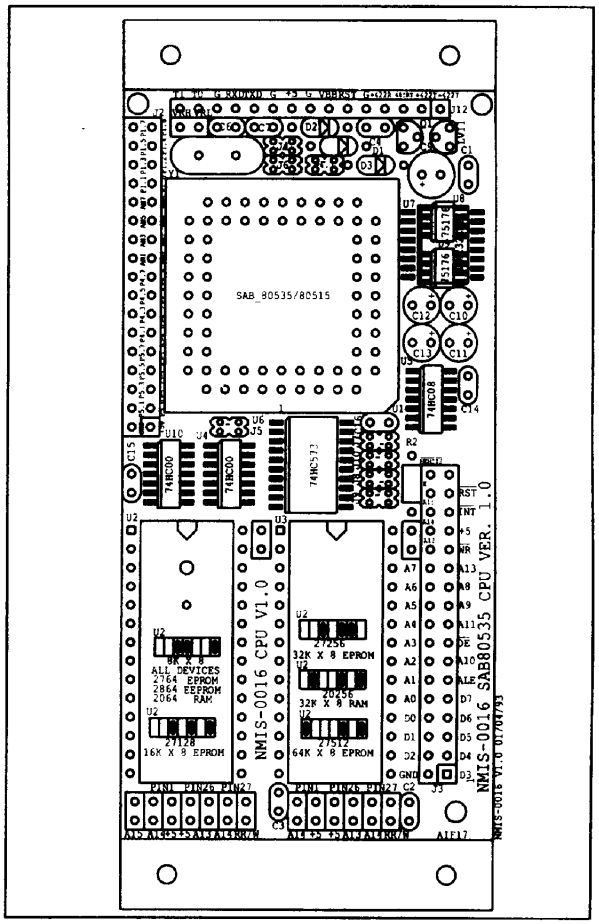
The NMIS-0016 is the 80535-based CPU board for the 2x4"s™ board series. It is also available in NMIL format.

FEATURES

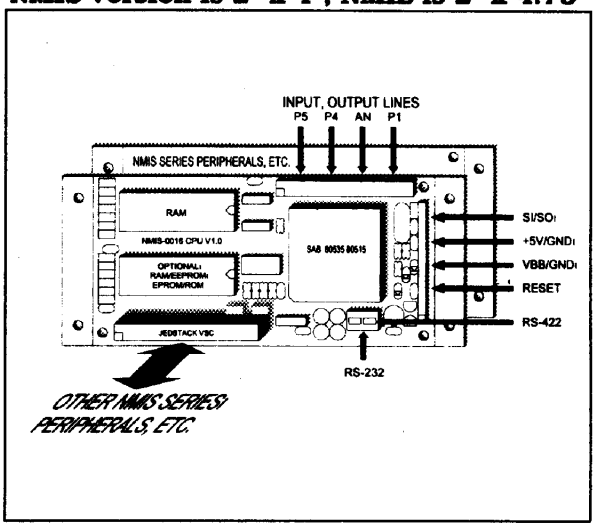
- 80535 CPU (8051 architecture)
- 4 parallel ports
- Fully Duplex Serial Channel, converters installed, either: TTL or RS-232 or RS422/485
- Three 16-bit timer/counters
- 16-Bit Reload, Compare, Capture capability
- 8-channel, 8-bit A/D
  Programmable reference voltages
- 16-Bit Watchdog Timer
- Boolean Processor
- 256 directly addressable bits
- 12 Interrupt sources
  7 ext., 5 int., 4-levels of priority
- 8K RAM
- 128K address space (96K max. on board)
- Two 28-pin JEDEC memory sockets
- Flexible address decoding, socket assignments
- Capacitor & Battery backup circuits for memory
- 34-pin JEDSTACK™
  Vertical Stacking Connector (VSC)

The NMIS-0016 is a complete system, ready to develop, or run, dedicated applications. Only the addition of the user program is required, in its internal EEPROM, or its battery backed RAM, or in a user-supplied ROM/EPROM/EEPROM.

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

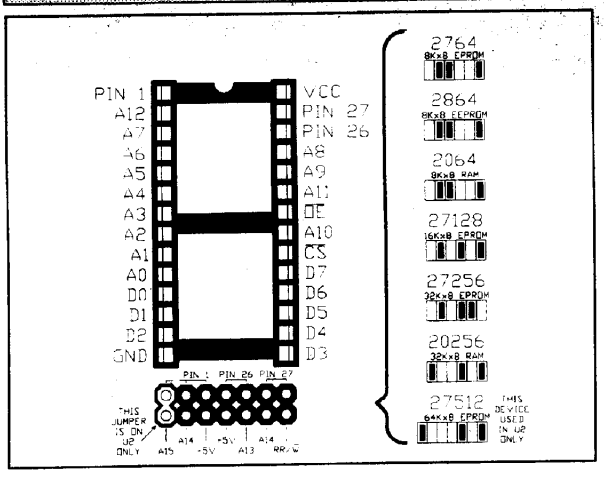


NMIS version is 2" x 4", NMIL is 2" x 4.75"

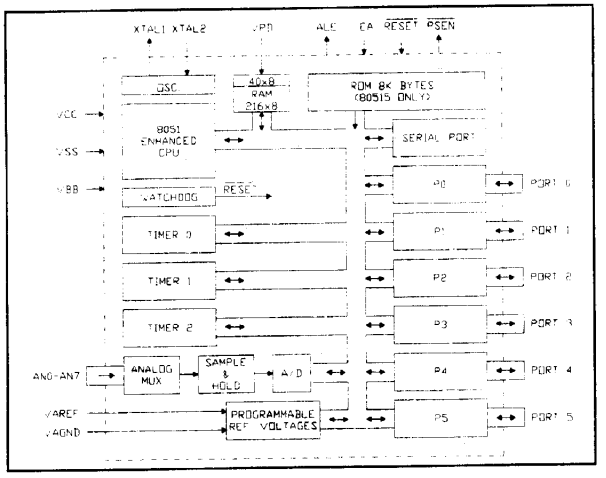


Application

NMIS-0016 80535 CPU CARD 2x4"s



28-Pin JEDEC Memory Sockets



80535 CPU Block Diagram

NMIS-0016

The system is compatible with the larger New Micros NMIX and NMIT series computers. The VSC has the same pinout on all these versions. The sockets accept JEDEC memory devices. Jumpers follow the same conventions in all systems. Refer to the figure at the left.

The board is available in two size. The standard version measures 2"x4" and is part of the NMIS 2x4"s™ board series. The NMIL version uses the same board, but has 3/8" mounting tabs on each end of the board, allowing more rigid mounting. The NMIL version measures 2"x4.75". The mounting tabs work with the NMIM-0006 Motherboard. See the NMIM-0006 data sheet for more details on this mounting system.

The NMIS-0016 can be ordered with RS-232, RS-422 or RS-485 converters installed. Since these parts are surface mount, and can not all be installed at the same time, they are not easily changed by the user. The desired communications interface should be specified when ordering.

Jumpers allow flexible address map configuration. The program and data space can be combined into a single 64K space, or, split into separate program/data space.

The NMIS-0016 makes a very cost effective solution as a development system for the 80535, particularly when small size and ease of development are required. Few single board computer offers as many features in such a small space. Optional, on-board High Level Languages include: FORTH, BASIC. Since the core processor is the popular 8051, many third party offer support packages. These include RLL, FORTH, C cross compilers, cross assemblers and more.

Configuration Specific Ordering Information

NMIS-0016: 2x4" TTL, NMIS-0016B2: 2x4" RS-232, NMIS-0016B4: 2x4" RS422/485
NMIL-0016: 2x4.75" TTL, NMIL-0016B2: 2x4.75" RS-232, NMIL-0016B4: 2x4.75" RS422/485

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