



NMIS-0021B F68HC11 CPU CARD

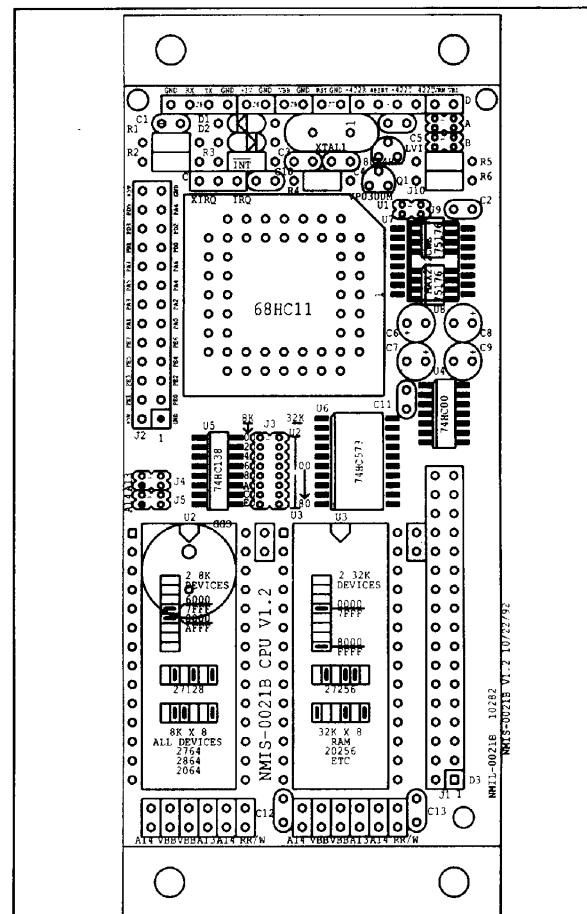
The NMIS-0021B is a F68HC11-based CPU board for the 2x4"s™ series. It is also available in NMIL format.

FEATURES

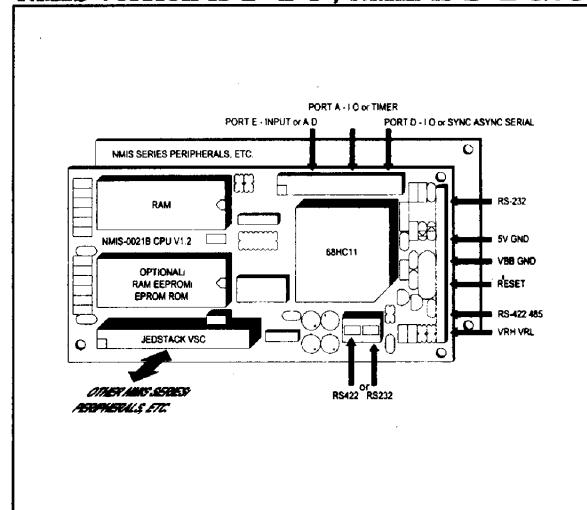
- F68HC11™ CPU
- Max-FORTH™ built-in programming language
- 231 predefined words in the language
- 3 parallel ports
- 1 Asynchronous Serial Channel (TTL, RS-232 or RS422/485)
- 1 Synchronous Serial Channel
- 8-channel, 8-bit A/D
- 8-bit counter
- 16-bit timer
- 3 input captures
- 5 output compares
- 1/2K EEPROM
- 1/4K RAM
- 64K address space
- 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-0021B is a complete system, ready to run dedicated applications. User program can be installed 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"

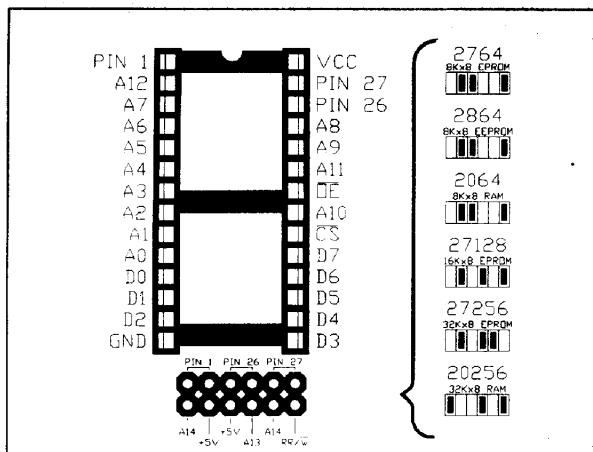


Application

NMIS-0021B

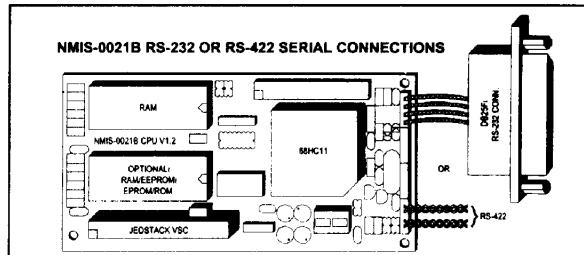
F68HC11 CPU CARD

2x4"s

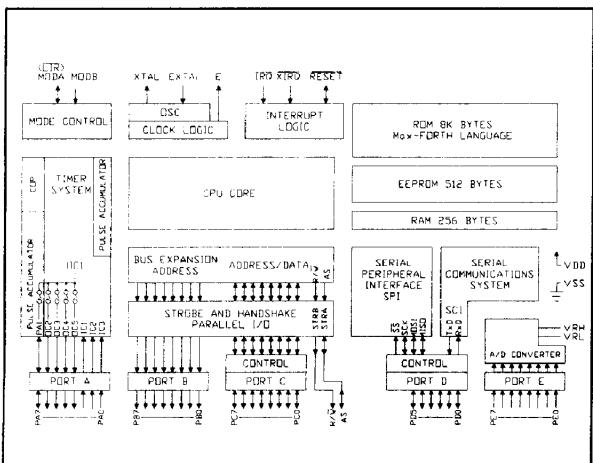


JEDEC Memory Sockets

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 accepting JEDEC memory devices have the same pinouts on both systems. Refer to the figure at the left.



RS232 / RS422 Connections



F68HC11 CPU Block Diagram

Code can be developed interactively with the NMIS-0021B's processor. No additional circuitry is needed. The level shifters supplied on the board can be specified as TTL, RS-232 or RS422/RS-485. (The board can be assembled with only one set of drivers. The drivers are surface mount parts and are not user changeable.)

The NMIS-0021B 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 currently offers so many features in such a small space. High Level Language support offers resident FORTH and, optionally, BASIC and Assembly Language. FORTH and C cross compilers and cross assemblers are also available.

Configuration Specific Ordering Information

NMIS-0021B: 2x4" TTL, NMIS-0021B2: 2x4" RS-232, NMIS-0021B4: 2x4" RS422/485
 NMIL-0021B: 2x4.75" TTL, NMIL-0021B2: 2x4.75" RS-232, NMIL-0021B4: 2x4.75" RS422/485

WORLD HEADQUARTERS

WORLDWIDE REPRESENTATIVES

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