

**NMIT-0020 F68HC11 CPU+LCD+KEYPAD**

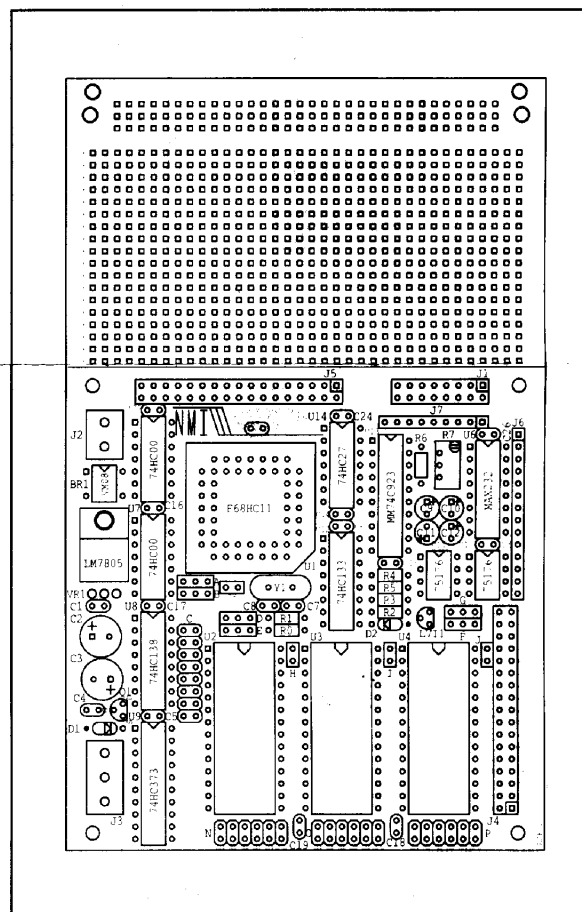
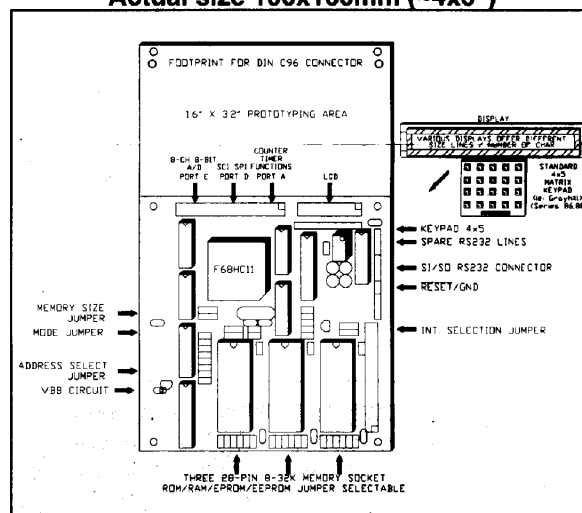
The NMIT-0020 is the F68HC11-based CPU board for the NMI "100 Squared"™ board series.

FEATURES

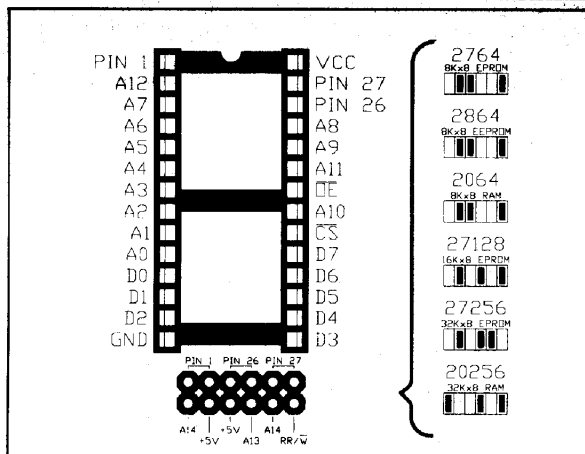
- F68HC11™ CPU
- Max-FORTH™ built-in programming language
- 231 predefined words in the language
- 3 parallel ports
- 1 Asynchronous Serial Ch. RS-232
- 1 Synchronous Serial Channel, TTL
- 8-channel, 8-bit A/D
(3 available when keypad in use)
- 8-bit counter
- 16-bit timer
- 3 input captures
- 5 output compares
- 1/2K EEPROM
- 8K RAM
- 64K address space
- Intelligent LCD interface (B5FC-B5FF Hex)
- 4x5 Keypad interface (Uses PE3-7, PA0)
- Three 28-pin JEDEC memory sockets
- Flexible address decoding, socket assignments
- Battery backup circuits for memory

The NMIT-0020 is a complete system, ready to develop, or run, dedicated applications. Simply apply regulated 5V power, attach a host RS-232 port, and begin programming. Then, the user program can be added to its internal EEPROM, or externally battery-backed RAM, or by a user-supplied ROM/EPROM/EEPROM.

All circuit paths of the more expensive NMIX-0020 are provided on the PCB, (see upper figure on right) but are not populated (see lower figure on right). The user may add parts as desired

**Actual size 100x160mm (~4x6")****Application****NMIT-0020 F68HC11 CPU CARD "100 Squared"**

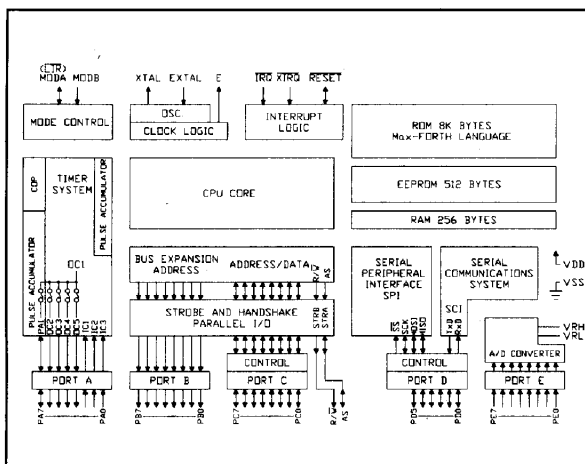
NMIT-0020 F68HC11 CPU CARD "100 Squared"



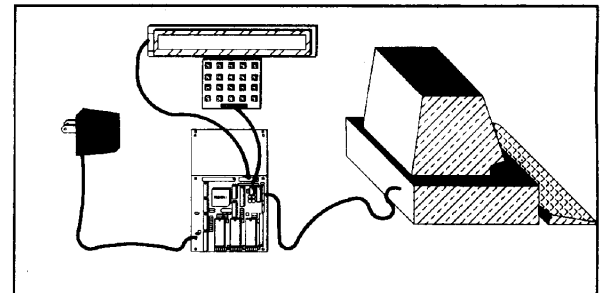
The "100 Squared"™ were named for their size, with 100x100mm of active component area, on a 100x160mm Eurocard format. The system is compatible with the New Micros NMIX, NMIT and NMIS series peripherals with a VSC-34 connector added. The 28-pin JEDEC memory sockets can accept various memory devices. Default wiring is for 8 K devices. Refer to the figure at the left.

Smart terminals, or personal computers with communications packages, can download source code to the NMIT-0020 via RS-232 ports. Interactive code development on the target system gives fast and efficient debugging. The built-in language gives machine level access.

28-Pin JEDEC Memory Sockets



F68HC11 CPU Block Diagram



Development Configuration

The NMIT-0020 makes a very cost effective solution as target systems with LCD and Keypad interfaces, particularly when small size, CMOS low power, and ease of development are required. Few single board computer 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.

WORLD HEADQUARTERS

WORLDWIDE REPRESENTATIVES

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