



Technological Arts Inc.

Technological Arts

MicroCore-11 32K Module

USD \$55.00



Product Info

Originally designed for the popular Micro Mouse annual robot competition, MicroCore-11 is a compact low-cost 68HC11 module with generous amounts of memory and a moderate number of I/O lines, which includes 8 analog inputs. The MCU runs in expanded mode, and external RAM, EEPROM and interface circuitry is included on-board. Combined with the powerful on-chip hardware subsystems of the 68HC11 a lot of features are packed into a 2-inch square board!

The modular design is offered with a broad choice of connector options, for the most flexibility. Probably the most popular connector option is **SB**, which allows the module to plug vertically into any common solderless breadboard-- just like a DIP chip.

A free Windows-based loader called MicroLoad is used to load your programs into the memory, and the board is compatible with virtually all 68HC11 development tools. We recommend MiniIDE for assembly programming, the Controlord BASIC11 compiler for BASIC, or ImageCraft ICC11 for C programming.

Product Details

- ultra-compact 2" x 2" board
- 52-pin PLCC socket for 68HC11 MCU (sold separately)
- available with 32K EEPROM, plus 32K RAM

- surface-mount chips for low-profile, high-density design
- 8-channel 8-bit analog-to-digital converter
- all PORT A lines available (pulse accumulator, input captures, output compares)
- four PORT D lines available (SPI)
- all PORT E lines available (8 analog/digital inputs)
- 8 MHz crystal standard
- 5V low-dropout regulator
- RS232 interface (3-wire)
- reset circuit and pushbutton
- all available port lines/interrupts/reset brought out to versatile 26-pin header
- convenient switches for RUN/LOAD and WRITE PROTECT (EEPROM)
- easy s-record loading using any standard 68HC11 loader (eg. MicroLoad, XLOAD, ICC11, PCBUG11, HCLOAD)
- modular design, with versatile connector options offers all the same configuration possibilities as Adapt11
- prototyping board, backplane, and motor driver boards available
- programmable in Assembler, BASIC, C

What you get:

- this product ships with hardcopy data sheet and schematic diagram
- data sheets, manuals, and all other resources for this product can be found by clicking on the blue Resources tab above
- the 68HC11 microcontroller chip is not included; buy it separately from the Components Category at the left

Before you order...

All of our [standard connector options](#) are available for this board. The product photo above shows "SB" connector on H1. Please make your choice of connectors before adding this item to your shopping cart. Otherwise, the board will be shipped with the default option (no connector on H1).

Â

[Vendor Information](#)