



Technological Arts Inc.

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NanoCore12MAXC128S Module, RS232 Interface, 40-pin

USD \$74.00



Product Info

NanoCore12™ is a low-cost platform that brings the advanced features of the 9S12C microcontroller family within easy reach of engineers, students, and hobbyists. The flexible design accommodates all aspects of training, evaluation, development, and application prototyping.

Product Details

Module Features:

- based on the 9S12C128 MCU (48-pin LQFP version)
- includes 8 Mhz crystal
- 24 MHz bus speed possible (via PLL)
- local 5 Volt low-dropout 100 mA regulator
- includes RS232 transceiver circuit
- includes CAN transceiver circuit
- has on-chip Serial Monitor
- supports standalone operation
- 128K Bytes Flash

- 4K Bytes Ram
- 40-pin DIP form-factor
- gold-plated 0.025" square pins

- this product ships with hardcopy data sheet and schematic diagram

- supports programming in C, BASIC, Forth, assembler, etc.
- no special Flash programming voltage or switch required
- fast in-circuit programming
- small footprint on-chip bootloader/monitor and free uBug12 GUI for quick loading/debugging of user programs on Windows, Mac, and Linux platforms
- Run/Load switch for choice of Standalone or Monitor operation following reset
- compatible with virtually all 9S12 development tools on the market, including CodeWarrior

- implements PLL loop filter circuit, supporting up to 48MHz operation (24 MHz bus speed)
- capable of 3-Volt operation (Note: CAN transceiver will not work at 3V)
- standard 6-pin BDM connector for full debugging capabilities (with an optional BDM pod)
- up to 31 digital I/O lines, including Port M, Port T, and Port E
- access to eight 10-bit analog input or digital I/O port lines (Port AD)
- access to eight digital I/O port lines (Port T)
- up to six PWM timer channels (PT0 - PT4, PP5)
- up to eight Input Capture/Output Compare pins (Port T)
- key wake-up interrupt pin (PP5)
- serial peripheral interface (SPI)
- serial communications interface (SCI)
- controller area network (CAN 2.0) (on-board transceiver circuit)
- internal programmable pullup and pulldown resistors on most pins
- user access to MCU reset signal

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[Vendor Information](#)