



Technological Arts Inc.

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Adapt9S12C32 MCU Module

USD \$69.00



Overview

Adapt9S12C32 is a next-generation version of the immensely popular Adapt11 product originally introduced by Technological Arts almost 20 years ago. The flexible design, wide range of connector options, and breadboard pluggability supports all aspects of training, evaluation, development, and application prototyping.

If you are migrating from the 68HC11, you'll appreciate the backward-compatibility. At the same time, you'll love the powerful HCS12 instruction superset, with its advanced DSP-like instructions, 16-bit arithmetic, memory-to-memory moves, and many powerful addressing modes.

Product Details

Adapt9S12C32 Highlights:

- based on the Freescale 9S12C32 MCU (80-pin QFP version)
- includes 8 Mhz crystal
- up to 24 MHz bus speed (via PLL)
- low-dropout 1.5 Amp regulator, selectable for 3.3V or 5V operation (NOTE: when operated at 3.3V, the on-board CAN transceiver is not functional)
- includes RS232 transceiver circuit (9-pin D-sub connector)
- includes CAN transceiver circuit (not functional when board is operated at 3.3V)

- has small footprint (2K) on-chip Serial Monitor for easy code-loading and simple debug capability via uBug12JE or CodeWarrior
- supports standalone operation
- 32K Bytes Flash
- 2K Bytes Ram
- standard 50-pin Adapt11 form-factor board (1.7" x 2.8")
- plug it into a solderless breadboard! (for this capability, choose "SB" connector option)
- compatible with Adapt11 backplanes and prototyping cards
- an extra eight I/O pins accessible via auxiliary 10-pin connector

Ease-of-Use Features

- supports programming in C, BASIC, Forth, assembler, etc.
 - fast in-circuit programming
 - small footprint on-chip bootloader/monitor and free uBug12JE multi-platform GUI for quick loading/debugging of user programs
 - Run/Load switch for selection of Standalone or Monitor operation
 - compatible with virtually all 9S12 development tools on the market
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- standard 6-pin BDM connector for full debugging capabilities (when used with an optional BDM pod)
 - up to 44 digital I/O lines on primary I/O connector
 - eight can be used as 10-bit analog inputs (Port AD)
 - auxiliary I/O connector brings out 8 more I/O pins (Port P)
 - up to six PWM channels (Port P)
 - up to eight Input Capture/Output Compare pins (Port T)
 - serial peripheral interface (SPI)
 - serial communications interface (SCI)
 - controller area network (CAN 2.0) with on-board transceiver circuit
 - up to ten key wake-up interrupt pins
 - internal programmable pullup and pulldown resistors on most pins
 - user access to MCU Reset signal

What's in the package

Contents:

- assembled module, with your choice of connector style for the 50-pin I/O connector (H1)
- red and black pluggable power wire (#PCJ1-8)
- printed pinout/schematic

- data sheets, manuals, and all other resources for this product can be found by clicking on the Resources tab above

[I/O Connector Options](#)

Important!

The 50-pin I/O connector style shown in the product photo is designated "SB", which enables the board to be plugged directly into a solderless breadboard. Other popular connector styles are RA , RA1, and M. Be sure to make your [connector option](#) selection below before adding to your cart.

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[Vendor Information](#)