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# Technological Arts Inc.

*Technological Arts*

## Adapt9S12PRU Module

USD \$58.00



### [Product Info](#)

**NEW!!!**

Adapt9S12PRU is a compact low-cost microcontroller module in the same form-factor as our original Adapt-11, launched more than 20 years ago. The flexible design, wide range of [connector options](#), and breadboard pluggability make this design suitable for use in training, evaluation, development, prototyping--and even volume production. It provides easy access to the latest microcontroller and communications interface technologies, offering an on-board choice of RS232 or USB, to suit your needs.

### Adapt9S12PRU Highlights:

- highly integrated S12P128 microcontroller
- industry-standard on-board CAN transceiver
- RS232 and USB interface circuits on board, jumper-selectable assignment
- option to power module via host USB port
- jumper-selectable 3V/5V operation
- extended temperature 8 MHz crystal on-board
- standard 6-pin BDM connector for program/debug
- compatible with industry-standard BDM pods
- supported by CodeWarrior and Cosmic C compilers
- Adapt module PCB form-factor: 2.8" (71mm) x 1.7" (43mm)
- 50-pin (2x20) footprint for I/O connector H1

• choice of [12 connector styles](#)

• functionally pin-compatible with other Adapt modules

• plug it into a solderless breadboard (choose "[SB" connector option](#) for this)

• compatible with Adapt11 backplanes and prototyping cards

• an extra 17 I/O pins accessible via auxiliary 20-pin header (H2)

• RoHS-compliant

• industrial temperature range (-40C to +85C)

• OEM pricing available for 25+ units

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**Note:** the module in the photo is shown with no connector on H1 (i.e. connector option code "NC"). Other popular connector options are RA , RA1, SB, and M. Be sure to make your [connector option](#) selection before adding to your cart.

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## [Product Details](#)

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- up to 44 digital I/O lines on primary I/O connector
- eight can be used as 12-bit analog inputs (Port AD)
- auxiliary I/O connector brings out 17 more I/O pins, including 2 analog, 6 PWMs, 9 GPIOs
- up to eight Input Capture/Output Compare pins (Port T)
- serial peripheral interface (SPI)
- up to ten key wake-up interrupt pins
- internal programmable pullup and pulldown resistors on most pins
- user access to MCU reset signal
- serial communications interface (SCI) (jumper-selectable to USB or RS232 interface)

## [Ease-of-use Features](#)

- supports programming in C and assembler
- compatible with virtually all 9S12 development tools on the market
- fast in-circuit programming
- small footprint on-chip bootloader/monitor and free uBug12JE multi-platform GUI for quick loading/debugging of user programs
- Run/Mon switch for selection of Standalone or Monitor operation

**Flash-based code development using on-chip debug/monitor** With a 2K Flash-resident debug/monitor

program, you'll be able to load your program into the remaining 126K Flash via the serial port using our free multi-platform uBug12 application. The entire 126K Flash can be programmed in about 12 seconds! To use the monitor for simple debugging or code-loading, just set the switch to MON. To run your standalone program thereafter, put the switch in the RUN position. Your code runs from Flash, and interrupts are supported (via Flash-based pseudo vectors, since the monitor resides in the vector space of the MCU). A program you load into Flash this way will run every time you apply power or reset the board in Run Mode (as long as you define the Reset Vector in your code).

**Flash-based code development using a Background Debug Mode (BDM) pod** If you use a more advanced development tool (such as our USBDMILT pod), the entire 128K Flash can be used, because the Flash-resident bootloader is no longer needed. You'll also be able to do advanced debugging via CodeWarrior, using the BDM pod.

### [What's in the package](#)

#### **Contents:**

- assembled module, with your choice of [connector style](#) for the 50-pin I/O connector (H1); H2 is M1 style, by default
- 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

#### ***Important!***

Be sure to make your [connector option](#) selection below before adding production to your cart.

### [Resources](#)

**Schematic, data sheet, and device docs are available in our [Support Library](#).**

### [Vendor Information](#)

**Customer Reviews:** There are no reviews yet for this product.  
Please log in to write a review.