



Technological Arts Inc.

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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.

[Product Details](#)

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
- standard 6-pin BDM connector for program/debug

- compatible with industry-standard BDM pods
- supported by CodeWarrior and Cosmic C compilers
- Adapt module form-factor (71mm x 43mm)
- 50-pin (2x20) I/O connector footprint for 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

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.

Ease-of-use Features

- supports programming in C and assembler
- no special Flash programming voltage or switch required
- 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
- compatible with virtually all 9S12 development tools on the market

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 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.

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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. More Features:

- standard 6-pin BDM connector for full debugging capabilities
- up to 44 digital I/O lines on primary I/O connector
- eight can be used as 12-bit analog inputs (Port AD)

- auxilliary 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)
- 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

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.
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