

MCU 8-bit AVR RISC 1KB Flash 2.5V/3.3V/5V 14-Pin SOIC T/R

Manufacturers	<a href="#">Microchip Technology, Inc</a>
Package/Case	SOIC-14
Product Type	Embedded Processors & Controllers
RoHS	
Lifecycle	



Images are for reference only

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## General Description

The high-performance Microchip's tinyAVR® picoPower® 8-bit RISC-based microcontroller (MCU) combines 1KB in-system programmable Flash memory, 32 bytes SRAM, 12 general-purpose I/O lines, 16 general-purpose working registers, one 16-bit timer/counters with two PWM channels, internal and external interrupts, an 8-channel 10-bit A/D converter, on-chip analog comparator, one full duplex USART, programmable watchdog timer with internal oscillator, internal calibrated oscillator, 10-bytes unique ID (serial number), three calibrated internal voltage references (1.1V, 2.2V and 4.3V), and four software selectable power saving modes. A version with faster startup time is available under a dedicated part number. The device operates between 1.8-5.5 volts.

By executing powerful instructions in a single clock cycle, the device achieves throughputs approaching 1 MIPS per MHz, balancing power consumption and processing speed.

The ATtiny104 device is a small, very versatile, low-cost, easy-to-use microcontroller suited to almost any application. It can be used for system monitoring, battery measurement, battery charging, voltage measurement, current measurement, interface to buttons, switches, drive of small motors, drive of one or more LEDs, and more. The integrated USART provides means for wired or wireless interface, making it possible to make a powerful, yet small and low-cost solution for any Internet of Things (IoT) end-node.

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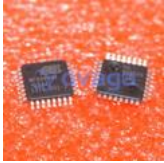
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