


## MCU 8-bit AVR RISC 2KB Flash 2.5V/3.3V/5V 20-Pin PDIP

### Tube



Images are for reference only

[Inquiry](#)

<b>Manufacturer:</b>	<a href="#">Microchip Technology, Inc</a>
<b>Package/Case:</b>	DIP
<b>Product Type:</b>	Embedded Processors & Controllers
<b>RoHS:</b>	RoHS Compliant/Lead free 
<b>Lifecycle:</b>	Active

### General Description

The high-performance Microchip picoPower® AVR® RISC-based CMOS 8-bit microcontroller combines 2 KB Flash memory, 128B EEPROM, 128B SRAM, 18 general purpose I/O lines, 32 general purpose working registers, a single-wire Interface for on-chip debugging, two flexible timer/counters with compare modes, internal and external interrupts, serial programmable USART, a universal serial interface (USI) with start condition detector, programmable watchdog timer with internal oscillator, and three software selectable power saving modes. The device operates between 1.8-5.5 volts.

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

## Key Features

Utilizes the AVR RISC architecture

120 Powerful instructions most single clock cycle execution

32 x 8 General purpose working registers

Fully static operation

Up to 20MIPS throughput at 20MHz

One 8-bit timer/counter with prescaler and two PWM channels

One 16-bit timer/counter with separate prescaler, compare and capture mode

Four PWM channels

On-chip analog comparator

Programmable watchdog timer with on-chip oscillator

USI-universal serial interface

Full duplex USART

DebugWIRE on-chip debug system

In-system programmable via SPI port

External and internal interrupt sources

Low-power idle, power-down and standby modes

Enhanced power-on reset circuit

Programmable brown-out detection circuit

Internal calibrated oscillator

## Recommended For You

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### ATmega8-16PU

Microchip Technology, Inc

DIP

### ATmega162-16PU

Microchip Technology, Inc

DIP40

### AT91RM9200-CJ-002

Microchip Technology, Inc

BGA

### AT89C2051-12PU

Microchip Technology, Inc

DIP

### ATmega8515L-8PU

Microchip Technology, Inc

DIP

### AT91SAM9G20B-CFU

Microchip Technology, Inc

247-TFBGA

### ATtiny20-XUR

Microchip Technology, Inc

TSSOP14

### AT89LS52-16PU

Microchip Technology, Inc

DIP

### ATtiny12L-4SUR

Microchip Technology, Inc

SOP8

**ATmega324PA-PU**

Microchip Technology, Inc

PDIP

**ATmega8535-16JU**

Microchip Technology, Inc

PLCC44

**ATtiny44A-PU**

Microchip Technology, Inc

DIP

**AT89C5131A-S3SUM**

Microchip Technology, Inc

PLCC52

**ATmega162V-8PU**

Microchip Technology, Inc

DIP40

**AT89C5115-SISUM**

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PLCC-28