


**MCU 8-bit AVR RISC 32KB Flash 3.3V/5V 40-Pin PDIP W
Tube**

Manufacturer:	Microchip Technology, Inc
Package/Case:	DIP40
Product Type:	Embedded Processors & Controllers
RoHS:	RoHS Compliant/Lead free 
Lifecycle:	Active



Images are for reference only

[Inquiry](#)

General Description

Overview

The ATmega32 is a low-power CMOS 8-bit microcontroller based on the AVR enhanced RISC architecture. By executing powerful instructions in a single clock cycle, the ATmega32 achieves throughputs approaching 1 MIPS per MHz allowing the system designer to optimize power consumption versus processing speed.

Key Features

Advanced RISC architecture

Power-on reset and programmable brown-out detection

Internal calibrated RC oscillator

External and internal interrupt sources

Six sleep modes - idle, ADC noise reduction, power-save, power-down, standby and extended standby

131 Powerful instructions-most single clock cycle execution

32 x 8 General purpose working registers

Fully static operation

Up to 16MIPS throughput at 16MHz

On-chip 2-cycle multiplier

JTAG (IEEE std. 1149.1 compliant) interface

Programmable watchdog timer with separate on-chip oscillator

On-chip analog comparator

Real-time counter with separate oscillator

Four PWM channels

Two 8-bit timers/counters with separate prescalers and compare modes

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

Byte-oriented two-wire serial interface

Programmable serial USART

Master/Slave SPI serial interface

Recommended For You

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

Microchip Technology, Inc
PLCC-28