**PRODUCT NAME** : ATmega8 Microcontrol
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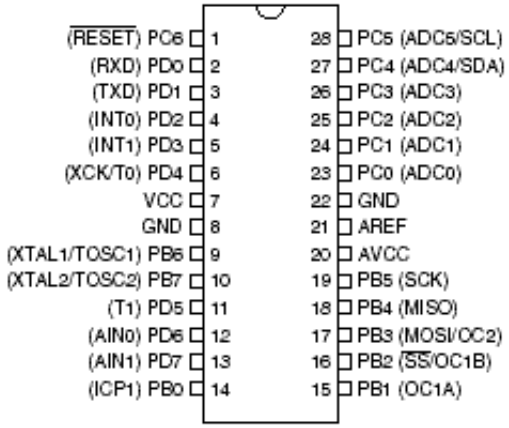
**PRICE** : Rs 90.00
**SKU** : RM0078

**DESCRIPTION**

The high-performance, low-power Atmel **8-bit AVR RISC-based microcontroller** combines **8KB ISP flash memory**, **1KB SRAM, 512B EEPROM**, an 7-channel/10-bit A/D converter (TQFP and QFN/MLF), and debugWIRE for on-chip debugging. The device supports a throughput of 16 MIPS at 16 MHz and operates between 4.5-5.5 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.

**Images/Pinout of ATmega8 Microcontroller**




## Features of ATmega8 Microcontroller:

- Operating Voltage: **4.5V** to **5V**.
- Advanced RISC Architecture.
- 32 x 8 General Purpose Working Registers.
- Fully Static Operation.
- Up to 16 MIPS Throughput at 16 MHz.
- On-chip 2-cycle Multiplier.
- High Endurance Non-volatile Memory segments.
- 8 Kbytes of In-System Self-programmable Flash program memory.
- 512 Bytes EEPROM.
- 1 Kbyte Internal SRAM.

- Write/Erase Cycles: 10,000 Flash/100,000 EEPROM.
- Data retention: 20 years at 85°C/100 years at 25°C(1).
- Optional Boot Code Section with Independent Lock Bits.
- In-System Programming by On-chip Boot Program.
- True Read-While-Write Operation.
- Programming Lock for Software Security.
- Extensive On-chip Debug Support.
- 8 Single-ended Channels.
- Byte-oriented Two-wire Serial Interface.
- Programmable Serial USART.
- Master/Slave SPI Serial Interface.
- Programmable Watchdog Timer with Separate On-chip Oscillator.
- Minimal circuit required for a complete functional project.

## Applications of ATmega8 Microcontroller:

- Multiple DIY projects.
- Projects requiring more than logical control for devices.
- Microcontroller applications for multiple device interface/Control.
- **Replacement for Arduino board**.
- Needs a USB AVR programmer.

Also Searched as :**atmega8 avr microcontroller**,**atmega8 datasheet**,**atmega8 arduino**,**atmega8 price india**,**minimal circuit.**