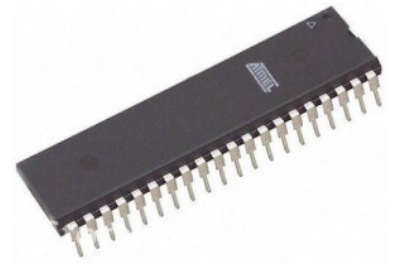




**PRODUCT NAME** : Atmel AT89S52 Microcontroller

**PRICE** : Rs 80.00

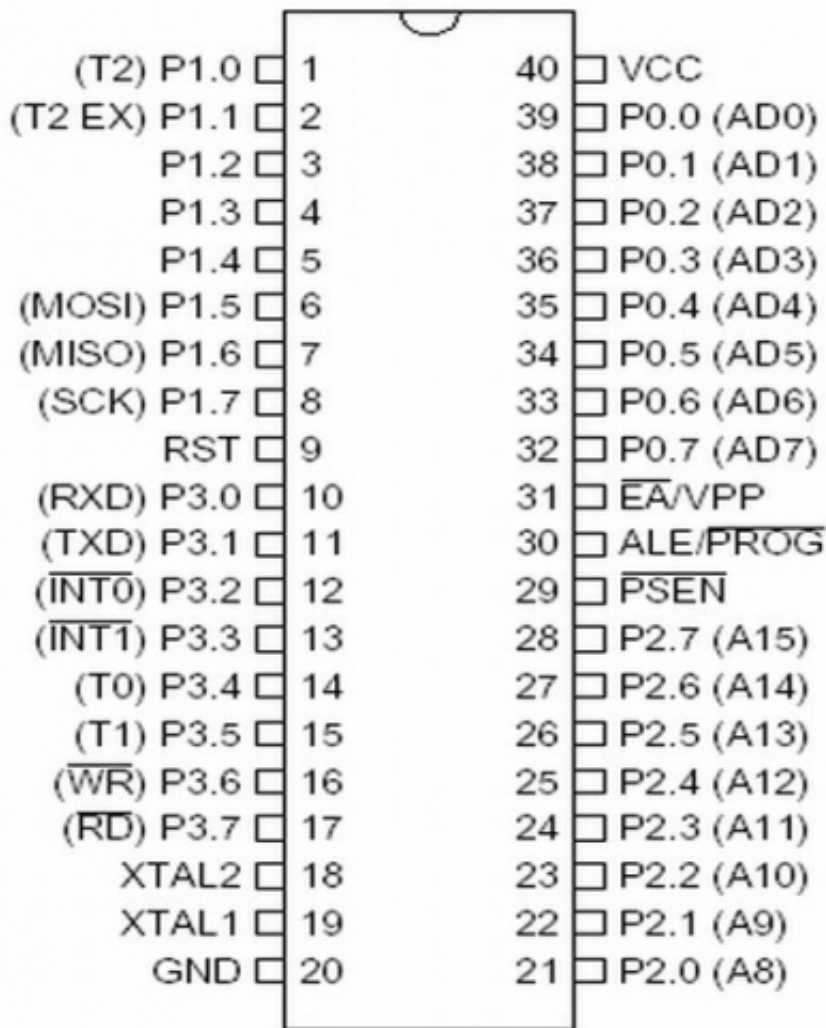
**SKU** : RM0081



## DESCRIPTION

The **Atmel AT89S52 Microcontroller** or commonly known as AT89S52 is a low-power, high-performance **CMOS 8-bit microcontroller** with 8K bytes of in-system programmable Flash memory. The device is manufactured using Atmel's high-density nonvolatile memory technology and is compatible with the industry-standard 80C51 instruction set and pinout. The on-chip Flash allows the program memory to be reprogrammed in-system or by a conventional nonvolatile memory programmer. By combining a versatile 8-bit CPU with in-system programmable Flash on a monolithic chip, the Atmel AT89S52 is a powerful microcontroller which provides a highly-flexible and cost-effective solution to many embedded control applications.

## Images of Atmel AT89S52 Microcontroller



## Features of Atmel AT89S52 Microcontroller:

- **8K Bytes** of In-System Programmable (ISP) Flash Memory.
- Endurance: **10,000 Write/Erase Cycles**.
- 4.0V to 5.5V Operating Range.
- Endurance: 1,000 Write/Erase Cycles
- Fully Static Operation : **0 Hz to 33 MHz**
- Three-level Program Memory Lock.
- 256 x 8-bit Internal RAM.
- 32 Programmable I/O Lines.
- Three 16-bit Timer/Counters.
- Eight Interrupt Sources.
- Full Duplex UART Serial Channel.
- Interrupt Recovery from Power-down Mode.
- **Watchdog Timer**.
- Dual Data Pointer.
- Low-power Idle and Power-down Modes.
- Power-off Flag
- **Fast Programming Time**

## **Applications of Atmel AT89S52 Microcontroller:**

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

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