

## EEPROM Serial-SPI 2M-bit 256K x 8 1.8V/2.5V/3.3V/5V 8-Pin SOIC T/R



Images are for reference only

[Inquiry](#)

**Manufacturer:** [Microchip Technology, Inc](#)

**Package/Case:** SOP8

**Product Type:** Memory

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

### General Description

The Microchip AT25M02 is a 2 Mb Serial EEPROM utilizing the industry standard Serial Peripheral Interface (SPI) compatible serial bus. The device is organized as one block of 256K x 8-bit and is optimized for use in consumer electronics, industrial, medical, and automotive applications where reliable and dependable nonvolatile memory storage is essential. Software write protection allows the user to protect 1/4, 1/2, or the entire memory array. A hardware write protect pin is also provided, which additionally protects against inadvertent writes to the status register. The EEPROM is available in a variety of space-saving packaging options.

### Key Features

256K x 8-bit (2 Mbit)

Supports SPI modes 0 and 3

Up to 5 MHz clock frequency

Self-Timed Erase and Write Cycles (10 ms max.)

Read current: 1 mA (Max) at 5 MHz

Write current: 2 mA (Max) at 1.8V

Standby current: 1µA (Max) at 1.8V

Block Write Protection: Protect 1/4, 1/2 or Entire Array

More than 1 million erase/write cycles

Data retention 100 years

Temperature Ranges Available

Industrial: -40°C to 85°C

Factory Programming Available

Available in standard package 8-lead SOIC, and advanced packages including 8-ball wLCSP and Die in wafer form

## Recommended For You

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### AT93C46E-PU

Microchip Technology, Inc  
DIP8

### AT93C46D-PU

Microchip Technology, Inc  
DIP8

### AT24C64D-SSHMT

Microchip Technology, Inc  
SOP8

### AT24C128C-MAHMT

Microchip Technology, Inc  
UDFN-8

### AT93C66B-XHM-T

Microchip Technology, Inc  
TSSOP8

### AT25256B-SSHL-T

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SOP8

### AT24C08C-SSHMT

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SOP8

### AT24C04C-PUM

Microchip Technology, Inc  
DIP8

### AT24C256C-SSHL-T

Microchip Technology, Inc  
SOP8

### AT24C02C-XHM-T

Microchip Technology, Inc  
TSSOP8

### AT24C02C-XHM-B

Microchip Technology, Inc  
TSSOP8

### AT24C32D-SSHMT

Microchip Technology, Inc  
SOP8

### AT24C02C-SSHMT

Microchip Technology, Inc  
SOP8

### AT24C16C-SSHMT-B

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SOP-8

### AT93C56B-SSHMT

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