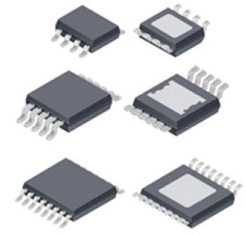


## EEPROM Serial-3Wire 2K-bit 256 x 8/128 x 16 1.8V/2.5V/3.3V/5V Automotive 8-Pin SOIC N Tube



Images are for reference only

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

**Package/Case:** SOIC

**Product Type:** Memory

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

The Microchip AT93C56B is a 2 Kb Microwire (3-wire) Serial EEPROM organized as either 256 x 8 or 128 x 16, selectable in hardware using the ORG pin. The device is optimized for use in consumer, industrial, and automotive applications where reliable and dependable nonvolatile memory storage is essential. The EEPROM is available in a variety of space-saving packaging options.

### Key Features

User selectable 256 x 8 or 128 x 16 Organization (2 Kbit)

Industry Standard Microwire Serial I/O

Up to 2 MHz clock compatibility

Self-Timed Erase and Write Cycles (5 ms max.)

Read current 0.5 mA (Typ), 2.0 mA (Max)

Write current 0.5 mA (Typ), 2.0 mA (Max)

Standby current 10.0 uA (Typ), 15.0 uA (Max)

Software Write-Protection

More than 1 million erase/write cycles

Data retention > 100 years

Grade 1 Temperature Range: -40°C to 125°C

Qualified for Automotive Applications

Factory Programming Available

Available in 8-pin SOIC (150 mil), 8-pin TSSOP, 8-pad UDFN, 8-pad XDFN, and 8-ball VFBGA packages

### Recommended For You

**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-XHMT**

Microchip Technology, Inc  
TSSOP8

**AT25256B-SSHL-T**

Microchip Technology, Inc  
SOP8

**AT24C08C-SSHMT**

Microchip Technology, Inc  
SOP8

**AT24C04C-PUM**

Microchip Technology, Inc  
DIP8

**AT24C256C-SSHL-T**

Microchip Technology, Inc  
SOP8

**AT24C02C-XHMT**

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**

Microchip Technology, Inc  
SOP-8

**AT93C56B-SSHMT**

Microchip Technology, Inc  
SOP8