

## EEPROM Serial-I2C 16K-bit 2K x 8 1.8V/2.5V/3.3V/5V Automotive 8-Pin PDIP W Tube



Images are for reference only

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

**Package/Case:** DIP8

**Product Type:** Memory

**RoHS:** RoHS Compliant/Lead free 

**Lifecycle:** Active

[Inquiry](#)

### General Description

The Microchip AT24C16C is a 16Kb Serial EEPROM utilizing an I<sup>2</sup>C (2-wire) serial interface. The device is organized as one block of 2K x 8 and 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

2K x 8 (16 Kbit)

400 kHz and 1 MHz clock compatibility

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

Read current 0.4 mA (Typ), 1 mA (Max)

Write current 2 mA (Typ), 3 mA (Max)

Standby current 6 uA (Max)

Hardware Write-Protect Pin

More than 1 million erase/write cycles

Data retention > 100 years

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

Grade 2 Temperature Range: -40°C to 105°C

Grade 3 Temperature Range: -40°C to 85°C

Qualified for Automotive Applications

Factory Programming Available

Available in 8-lead PDIP, 8-lead SOIC, 8-lead TSSOP, 8-pad UDFN, 8-pad XDFN, 5-lead SOT23, and 8-ball VFBGA

### 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**

Microchip Technology, Inc

SOP8

**AT24C08C-SSHMT**

Microchip Technology, Inc

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**

Microchip Technology, Inc

SOP-8

**AT93C56B-SSHMT**

Microchip Technology, Inc

SOP8