

EEPROM Serial-SPI 512K-bit 64K x 8 2.5V/3.3V/5V Automotive 8-Pin SOIJ Tube

Manufacturer:	Microchip Technology, Inc
Package/Case:	SOP8
Product Type:	Memory
RoHS:	RoHS Compliant/Lead free W
Lifecycle:	Active



Images are for reference only

General Description

The Microchip 25AA512 is a 512 Kb Serial EEPROM utilizing the industry standard Serial Peripheral Interface (SPI) compatible serial bus. The device is organized as one block of 64K 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 $\frac{1}{4}$, $\frac{1}{2}$, 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

64K x 8-bit (512 Kbit) Supports SPI modes 0 and 3 Up to 20 MHz clock frequency Self-Timed Erase and Write Cycles (6 ms max.) Read current: 10 mA (Max) at 20 MHz Write current: 5 mA (Max) at 20 MHz Standby current: 10 μA (Max) at 5.5 V Deep power-down current: 1 μA (Max) at 2.5 V Block Write Protection: Protect 1/4, 1/2 or Entire Array More than 1 million erase/write cycles Data retention > 200 years Industrial (I): -40°C to +85°C Automotive AECQ-100 Qualified1 Factory Programming Available Available in standard packages including 8-lead PDIP, SOIC and SOIJ and advanced package 8-lead 5x6 DFN

AVAQ SEMICONDUCTOR CO., LIMITED

Recommended For You

SST25VF080B-50-4C-S2AF Microchip Technology, Inc SOP8

AT25040B-SSHL-B Microchip Technology, Inc SOP-8

AT27C256R-70JU Microchip Technology, Inc PLCC32

25AA1024T-I/MF Microchip Technology, Inc DFN-8

25AA256T-I/SN Microchip Technology, Inc SOP8 AT25256B-SSHL-T Microchip Technology, Inc SOP8

AT25128B-SSPDGV-T Microchip Technology, Inc SOP8

25AA1024-I/SM Microchip Technology, Inc SOP8

AT25512N-SH-T Microchip Technology, Inc SOP8

25LC640A-I/SN Microchip Technology, Inc SOP8 AT24C256C-SSHL-T Microchip Technology, Inc SOP8

23K256-I/SN Microchip Technology, Inc SOP8

AT25320B-SSHL-T Microchip Technology, Inc SOP8

25LC1024-I/SM Microchip Technology, Inc SOP8

AT25640B-SSHL-T

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