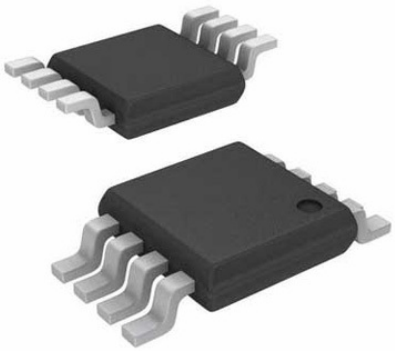
# 24AA256UID-I/ST

Data Sheet

EEPROM, 256 Kbit, 32K x 8bit, Serial I2C (2-Wire), 400 kHz, TSSOP, 8 Pins

| | |
|---|---|
| Manufacturers | Microchip Technology, Inc |
| Package/Case | TSSOP-8 |
| Product Type | Memory |
| RoHS | Rohs |
| Lifecycle | |



Images are for reference only

Please submit RFQ for 24AA256UID-I/ST or Email to us: sales@ovaga.com We will contact you in 12 hours. RFQ

## General Description

The Microchip Technology Inc. 24AA256UID is a 256 Kbit Electrically Erasable PROM with a pre-programmed globally unique EUI-48™ and EUI-64™ IEEE MAC address. The device also has a pre-programmed 32-bit unique ID. This serial number is unique across all UID-Family of EEPROMs. The ID is Scalable to 48-bit, 64-bit, 128-bit, 256-bit, and other lengths. The 24AA256UID is a 32K x 8 (256 Kbit) SerialElectrically Erasable PROM, capable of operationacross a broad voltage range (1.8V to 5.5V). It hasbeen developed for advanced, low-power applicationssuch as personal communications or data acquisition.This device also has a page write capability of up to 64bytes of data. This device is capable of both randomand sequential reads up to the 256K boundary. The 24AA256UID device is avaliable in 8-SOIC, 8-PDIP and 8-TSSOP packages.

## Features

Globally Unique 48-bit and 64-bit Node Addresses

EUI-48™ & EUI-64™ compatible

Pre-programmed 32-bit Serial Number (ID)

Stored in Permanently Write-ProtectedUpper 1/8th of EEPROM Array

Reliable EEPROM Memory

Self-Timed Erase/Write Cycle

64-Byte Page Write Buffer

Page Write Time 5 ms Max.

Low Power

Operating voltage 1.7V to 5.5V

Read current 1 mA, max.

Standby current 1 uA, max.

2-Wire Serial Interface, I2C™ Compatible

Cascadable up to Eight Devices

Schmitt Trigger Inputs for Noise Suppression

Output Slope Control to Eliminate Ground Bounce

100 kHz and 400 kHz Clock Compatible

ESD Protection >4000V

Pb-Free and RoHS Compliant

Packages Include 8-lead PDIP, SOIC and TSSOP

### Related Products

AT24CM02-SSHM-B

Microchip Technology, Inc

SOIC-8

AT24CM02-SSHD-B

Microchip Technology, Inc

SOIC-8

[24FC512-I/SM]

Microchip Technology, Inc

SOIJ-8

[24AA512-I/SM]

Microchip Technology, Inc

SOIJ-8

[AT24C512C-SSHM-T]

Microchip Technology, Inc

SOIC-8

[24LC256-I/ST]

Microchip Technology, Inc

TSSOP-8

[24LC32AT-I/SN]

Microchip Technology, Inc

SOIC-8

[AT24C04D-MAHM-T]

Microchip Technology, Inc

UDFN-8