

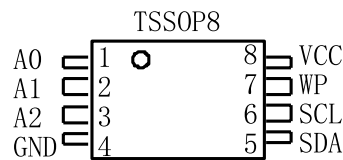
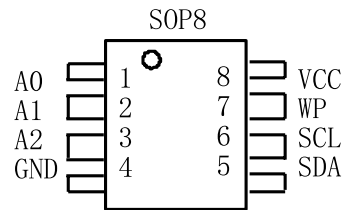
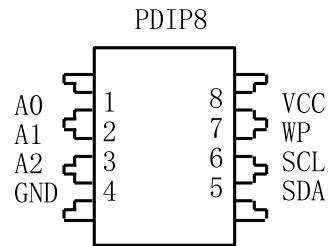
General Description

AS24C128/AS24C256 provides 131,072/262,144 bits of serial electrically erasable and programmable read-only memory (E2PROM) organized as 16,384/32,768 words of 8 bits each. The device is optimized for use in many industrial and commercial applications where low-power and low-voltage operations are essential.

Features

- ◆ Operation Voltage: 1.8V ~5.5V
- ◆ Internally Organized:
 - AS24C128 128 x 8(128k bits),
 - AS24C256 256 x 8(256k bits)
- ◆ Two-wire serial interface
- ◆ Bi-directional data transfer protocol
- ◆ 400kHz(1.8V,2.7V,5V), Compatibility
- ◆ 64-byte page(128k/256k) write modes
- ◆ Self-timed write cycle(5ms max)
- ◆ 1Million Write Cycle guaranteed
- ◆ Data Retention: >100years
- ◆ High-reliability
- ◆ Partial Page Writes Allowed
- ◆ Operation Temperature: -40°C ~ 85°C

Package Type



Pin Configuration

Pin Name	Function
A0~A1	Address Input
SDA	Serial Data
SCL	Serial Clock Input
WP	Write Protect
GND	Ground
Vcc	Power Supply

Absolute Maximum Ratings

DC Supply Voltage	-0.3V to +6.5V
Input & Output Voltage	GND-0.3V to VCC+0.3V
Operating Temperature	-40°C ~ +85°C
Storage Temperature	-55°C ~ +125°C

Notes: stress above those listed may cause permanent damage to this device. These are stress ratings only. Functional operation of this device at these or any other conditions above those indicated in the operational sections of this specification is not implied or intended. Exposure to the absolute maximum rating conditions for extended periods may affect device reliability.