
**I²C-Compatible (Two-Wire)
Serial EEPROM 512-Kbit (65,536 x 8)**

Features

- Low-Voltage and Standard-Voltage Operation:
 - V_{CC} = 1.7V to 3.6V
 - V_{CC} = 2.5V to 5.5V
- Internally Organized as 65,536 x 8 (512K)
- Industrial Temperature Range: -40°C to +85°C
- I²C-Compatible (Two-Wire) Serial Interface:
 - 100 kHz Standard mode, 1.7V to 5.5V
 - 400 kHz Fast mode, 1.7V to 5.5V
 - 1 MHz Fast Mode Plus (FM+), 2.5V to 5.5V
- Schmitt Triggers, Filtered Inputs for Noise Suppression
- Bidirectional Data Transfer Protocol
- Write-Protect Pin for Full Array Hardware Data Protection
- Ultra Low Active Current (3 mA maximum) and Standby Current (6 µA maximum)
- 128-Byte Page Write Mode:
 - Partial page writes allowed
- Random and Sequential Read Modes
- Self-Timed Write Cycle within 5 ms Maximum
- ESD Protection > 4,000V
- High Reliability:
 - Endurance: 1,000,000 write cycles
 - Data retention: 100 years
- Green Package Options (Lead-free/Halide-free/RoHS compliant)
- Die Sale Options: Wafer Form and Tape and Reel Available

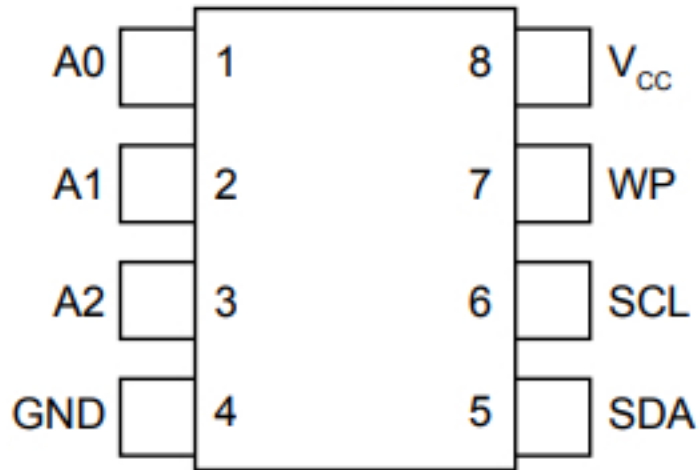
勝特力材料 886-3-5753170
勝特力电子(上海) 86-21-34970699
勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Packages

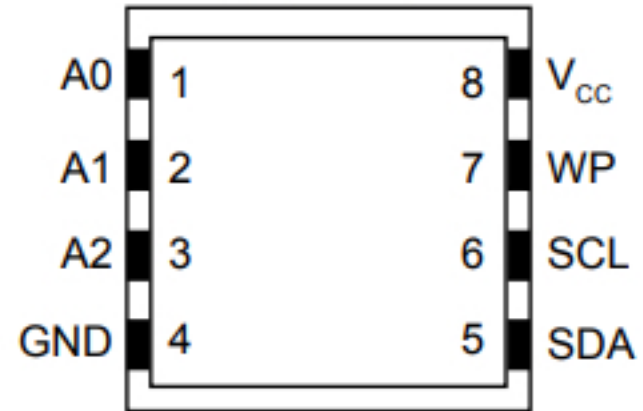
- 8-Lead SOIC, 8-Lead SOIJ, 8-Lead TSSOP, 8-Pad UDFN, 8-Ball WLCSP and 8-Ball VFBGA

1. Package Types (not to scale)

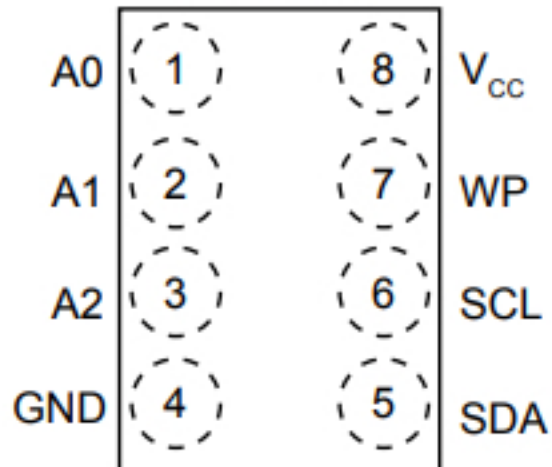
8-Lead SOIC/SOIJ/TSSOP
(Top View)



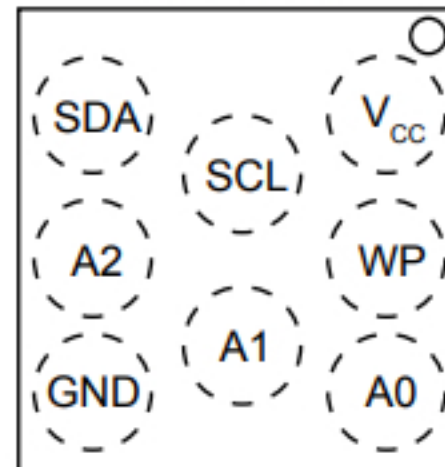
8-Pad UDFN
(Top View)



8-Ball VFBGA
(Top View)



8-Ball WLCSP
(Top View)



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