

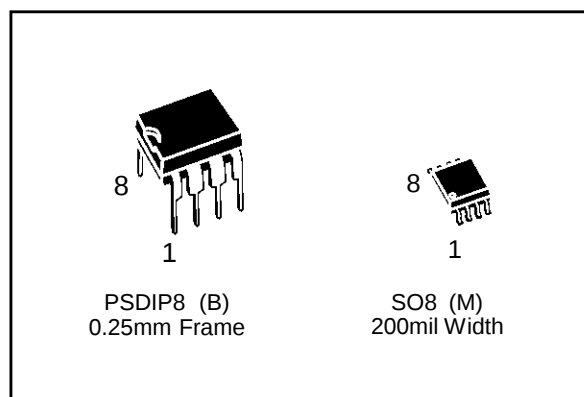
SERIAL EXTENDED ADDRESSING COMPATIBLE
WITH I²C BUS 32K (4K x 8) EEPROM

DATA BRIEFING

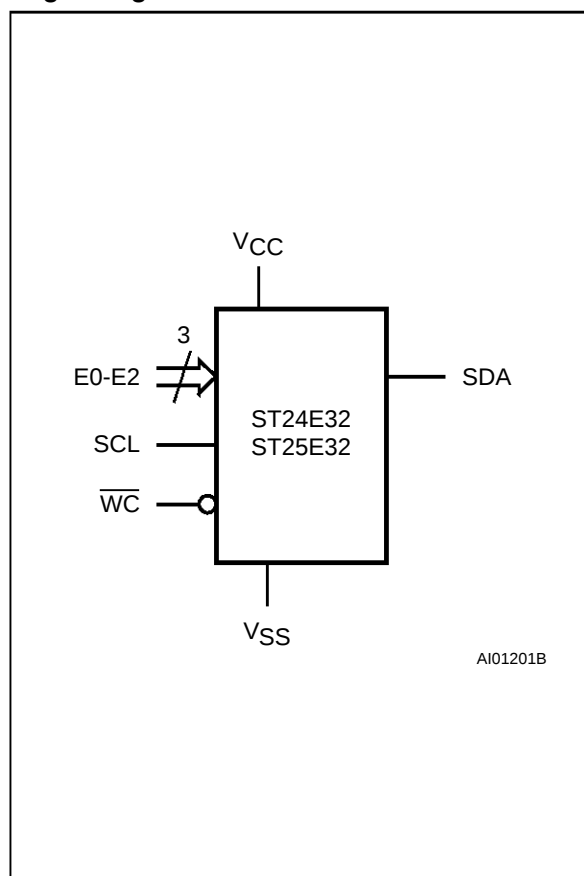
- COMPATIBLE with I²C EXTENDED ADDRESSING
- TWO WIRE SERIAL INTERFACE, SUPPORTS 400kHz PROTOCOL
- 100,000 ERASE/WRITE CYCLES, OVER the FULL SUPPLY VOLTAGE RANGE
- 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE
 - 4.5V to 5.5V for ST24E32 version
 - 2.5V to 5.5V for ST25E32 version
- WRITE CONTROL FEATURE
- BYTE and PAGE WRITE (up to 32 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD/LATCH UP PERFORMANCES

DESCRIPTION

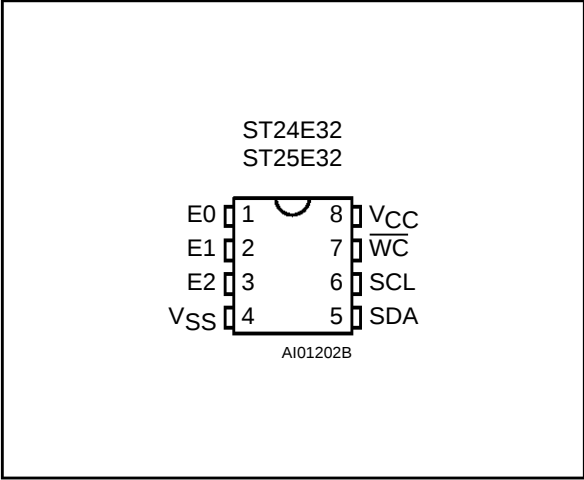
The ST24/25E32 are 32K bit electrically erasable programmable memories (EEPROM), organized as 8 blocks of 512 x 8 bits. The ST25E32 operates with a power supply value as low as 2.5V. Both Plastic Dual-in-Line and Plastic Small Outline packages are available.



Logic Diagram



DIP Pin Connections



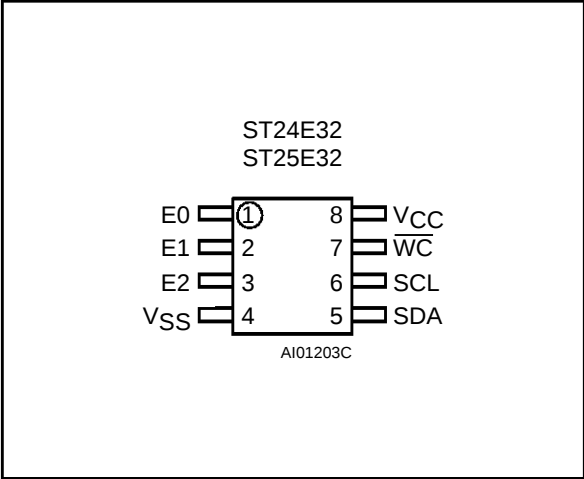
Signal Names

E0 - E2	Chip Enable Inputs
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
VCC	Supply Voltage
VSS	Ground

Ordering Information Scheme

For a list of available options refer to the current Memory Shortform catalogue.
For further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.

SO Pin Connections



Example:

	ST24E32	M	1	TR
Operating Voltage				
24	4.5V to 5.5V			
25	2.5V to 5.5V			
Range				
E	Extended Addressing			
Package				
B	PSDIP8 0.25mm Frame			
M	SO8 200mil Width			
Temp. Range				
1	0 to 70 °C			
6	-40 to 85 °C			
3	-40 to 125 °C			
Option				
TR	Tape & Reel Packing			