

ST24C04, ST25C04 ST24W04, ST25W04

SERIAL 4K (512 x 8) EEPROM

DATA BRIEFING

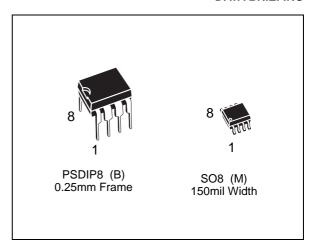
- 1 MILLION ERASE/WRITE CYCLES with 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE:
 - 3V to 5.5V for ST24x04 versions
 - 2.5V to 5.5V for ST25x04 versions
 - 1.8V to 5.5V for ST24C04R version only
- HARDWARE WRITE CONTROL VERSIONS: ST24W04 and ST25W04
- PROGRAMMABLE WRITE PROTECTION
- TWO WIRE SERIAL INTERFACE, FULLY I²C BUS COMPATIBLE
- BYTE and MULTIBYTE WRITE (up to 4 BYTES)
- PAGE WRITE (up to 8 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD/LATCH UP PERFORMANCES

DESCRIPTION

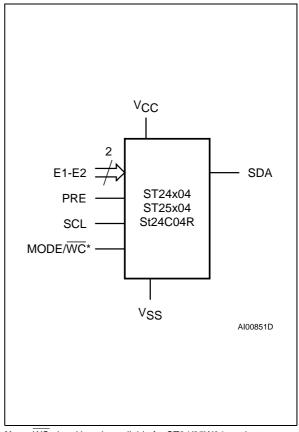
This specification covers a range of 4K bits I^2C bus EEPROM products, the ST24/25C04, the ST24C04R and the ST24/25W04. In the text, products are referred to as ST24/25x04, where "x" is: "C" for Standard version and "W" for hardware Write Control version.

The ST24/25x04 are 4K bit electrically erasable programmable memories (EEPROM), organized as 2 blocks of 256 x 8 bits. They are manufactured in SGS-THOMSON's Hi-Endurance Advanced CMOS technology which guarantees an endurance of one million erase/write cycles with a data retention of 40 years. The memories operate with a power supply value as low as 1.8V for the ST24C04R only.

Both Plastic Dual-in-Line and Plastic Small Outline packages are available.



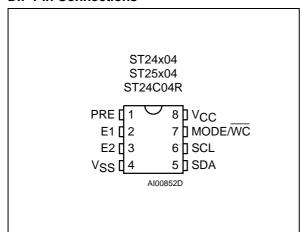
Logic Diagram



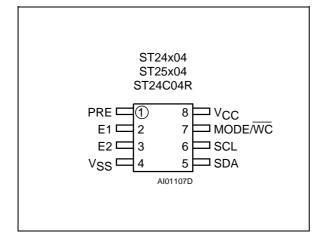
Note: WC signal is only available for ST24/25W04 products.

B24C04/607 1/2

DIP Pin Connections



SO Pin Connections



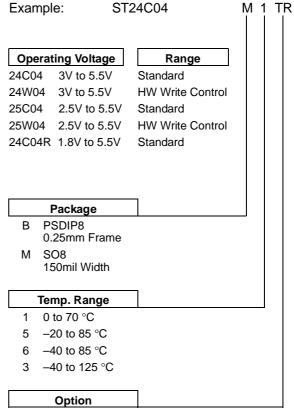
Signal Names

PRE	Write Protect Enable
E1-E2	Chip Enable Inputs
SDA	Serial Data Address Input/Output
SCL	Serial Clock
MODE	Multibyte/Page Write Mode (C version)
WC	Write Control (W version)
V _{CC}	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.



TR Tape & Reel Packing

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