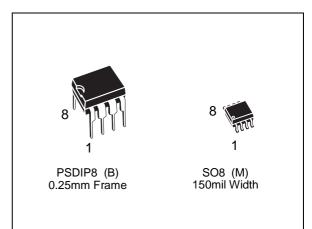


# ST24164 ST25164

## 16Kb (x8) SERIAL EEPROM

#### DATA BRIEFING

- 1 MILLION ERASE/WRITE CYCLES with OVER 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE:
  - 4.5V to 5.5V for ST24164 version
  - 2.5V to 5.5V for ST25164 version
- HARDWARE WRITE CONTROL PIN
- TWO WIRE SERIAL INTERFACE
- PAGE WRITE (up to 16 BYTES)
- BYTE, RANDOM and SEQUENTIAL READ MODES
- SELF TIMED PROGRAMMING CYCLE
- AUTOMATIC ADDRESS INCREMENTING
- ENHANCED ESD/LATCH-UP PERFORMANCES



#### Logic Diagram

#### DESCRIPTION

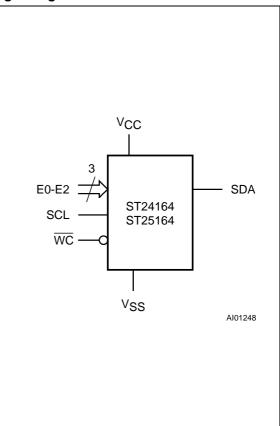
The ST24/25164 are 16K bit electrically erasable programmable memories (EEPROM), organized as 2048 x 8 bits. They are manufactured in SGS-THOMSON's Hi-Endurance Advanced CMOS technology which guarantees an endurance of one million erase/write cycles with a data retention of over 40 years. The memories operate with a power supply value as low as 2.5V.

#### **Signal Names**

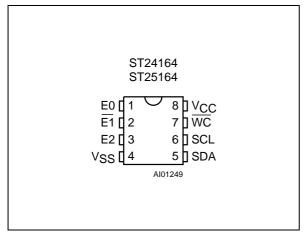
E0-E2	Chip Enable Inputs
SDA	Serial Data Address Input/Output
SCL	Serial Clock
WC	Write Control
V <sub>CC</sub>	Supply Voltage
V <sub>SS</sub>	Ground



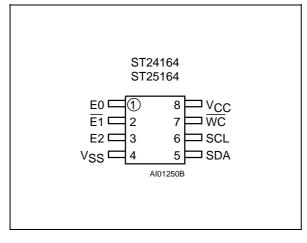
Complete data available on DATA-on-DISC CD-ROM or at www.st.com



### **DIP Pin Connections**

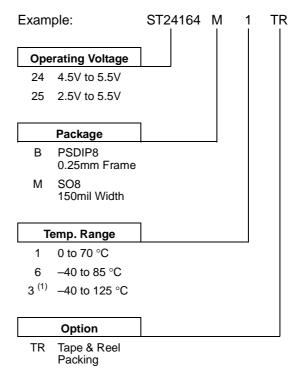


## **SO Pin Connections**



#### **Ordering Information Scheme**

For a list of available options or for further information on any aspect of this device, please contact the SGS-THOMSON Sales Office nearest to you.



Notes: 1. Temperature range on special request only.

Devices are shipped from the factory with the memory content set at all "1's" (FFh).