

M95256 M95128

256K/128K SERIAL SPI EEPROM with POSITIVE CLOCK STROBE

DATA BRIEFING

- 100,000 ERASE/WRITE CYCLES
- 40 YEARS DATA RETENTION
- SINGLE SUPPLY VOLTAGE
 - 4.5V to 5.5V for M95xxx
 - 2.5V to 5.5V for M95xxx-W
 - 1.8V to 3.6V for M95xxx-R
- SPI BUS COMPATIBLE SERIAL INTERFACE
- 5 MHz CLOCK RATE MAX
- STATUS REGISTER
- HARDWARE PROTECTION of the STATUS REGISTER
- 64 BYTE PAGE MODE
- SIZEABLE READ ONLY EEPROM AREA
- SELF-TIMED PROGRAMMING CYCLE
- E.S.D.PROTECTION GREATER than 4000V
- SUPPORTS POSITIVE CLOCK SPI MODES

DESCRIPTION

The M95xxx is a family of Electrically Erasable Programmable Memories (EEPROM) fabricated with SGS-THOMSON's High Endurance Double Polysilicon CMOS technology. Each Memory is accessed by a simple SPI bus compatible serial interface. The bus signals are a serial clock input (C), a serial data input (D) and a serial data output (Q).

The device connected to the bus is selected when the chip select input (\overline{S}) goes low. Communications with the chip can be interrupted with a hold input (HOLD).

Signal Names

С	Serial Clock
D	Serial Data Input
Q	Serial Data Output
S	Chip Select
W	Write Protect
HOLD	Hold
V _{CC}	Supply Voltage
V _{SS}	Ground

B95256/803

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

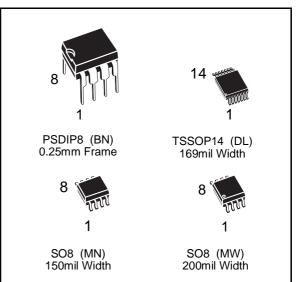
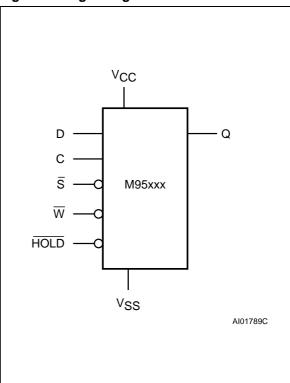
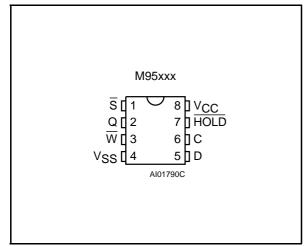


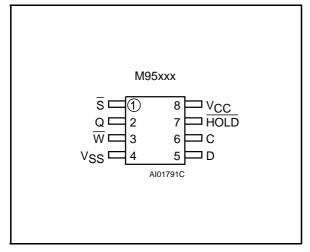
Figure 1. Logic Diagram



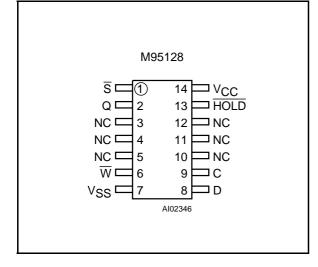
DIP Pin Connections



SO Pin Connections

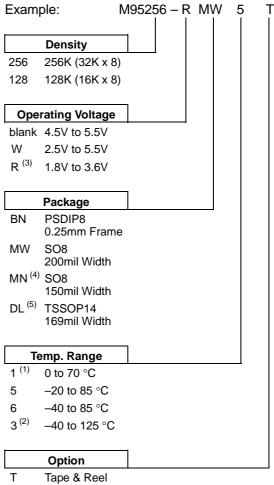


TSSOP Pin Connections



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.



Packing

- Notes: 1. Temperature range on request only. 2. Produced with High Reliability Certified Flow
 - HRCF), in V_{CC} range 4.5V to 5.5V only
 -R version (1.8V to 3.6V) are only available in temperature ranges 5 or 1.
 SO8, 150mil Width, package is available for
 - M95128 series only 5. TSSOP14, 169mil Width, pakage is available for
 - M95128 series only.

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

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