

NM93C06/C46/C56/C66

256-/1024-/2048-/4096-Bit Serial EEPROM

(MICROWIRE™ Bus Interface)

General Description

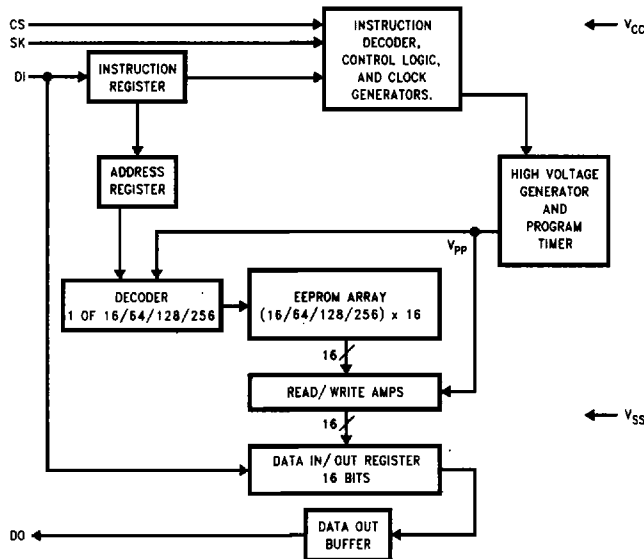
The NM93C06/C46/C56/C66 devices are 256/1024/2048/4096 bits, respectively, of CMOS non-volatile electrically erasable memory divided into 16/64/128/256 16-bit registers. They are fabricated using National Semiconductor's floating-gate CMOS process for high reliability and low power consumption. These memory devices are available in both SO and TSSOP packages for small space considerations.

The EEPROM interfacing is MICROWIRE compatible for simple interface to standard microcontrollers and microprocessors. There are 7 instructions that control these devices: Read, Erase/Write Enable, Erase, Erase All, Write, Write All, and Erase/Write Disable. The ready/busy status is available on the DO pin during programming.

Features

- Device status during programming mode
- Typical active current of 200 μ A; Typical standby current of 10 μ A
- No erase required before write
- Reliable CMOS floating gate technology
- 4.5V to 5.5V operation in all modes
- MICROWIRE compatible serial I/O
- Self-timed programming cycle
- 40 years data retention
- Endurance: 10^6 data changes
- Packages available: 8-pin SO, 8-pin DIP, 8-pin TSSOP

Block Diagram



TL/D/10751-1