



MM54C910/MM74C910 256 Bit TRI-STATE® Random Access Read/Write Memory

General Description

The MM54C910/MM74C910 is a 64 word by 4 bit random access memory. Inputs consist of six address lines, four data input lines, a WE, and a ME line. The six address lines are internally decoded to select one of 64 word locations. An internal address register latches the address information on the positive to negative transition of ME. The TRI-STATE outputs allow for easy memory expansion.

Address Operation: Address inputs must be stable (t_{SA}) prior to the positive to negative transition of ME, and (t_{HA}) after the positive to negative transition of ME. The address register holds the information and stable address inputs are not needed at any other time.

Write Operation: Data is written into memory at the selected address if WE goes low while ME is low. WE must be held low for t_{WE} and data must remain stable t_{HD} after WE returns high.

Read Operation: Data is nondestructively read from a memory location by an address operation with WE held high.

Outputs are in the TRI-STATE (Hi-Z) condition when the device is writing or disabled.

Features

- Supply voltage range 3.0 V to 5.5 V
- High noise immunity 0.45 V_{CC} (typ.)
- TTL compatible fan out 1 TTL load
- Input address register
- Low power consumption 250 nW/package (typ.) (chip enabled or disabled)
- Fast access time 250 ns (typ.) at 5.0 V
- TRI-STATE outputs
- High voltage inputs

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See page 4-11
for Detailed
Specifications