



128K x 8 Static RAM

Features

- High speed  
—  $t_{AA} = 10$  ns
- CMOS for optimum speed/power
- Center power/ground pinout
- Automatic power-down when deselected
- Easy memory expansion with  $\overline{CE}$  and  $\overline{OE}$  options

Functional Description

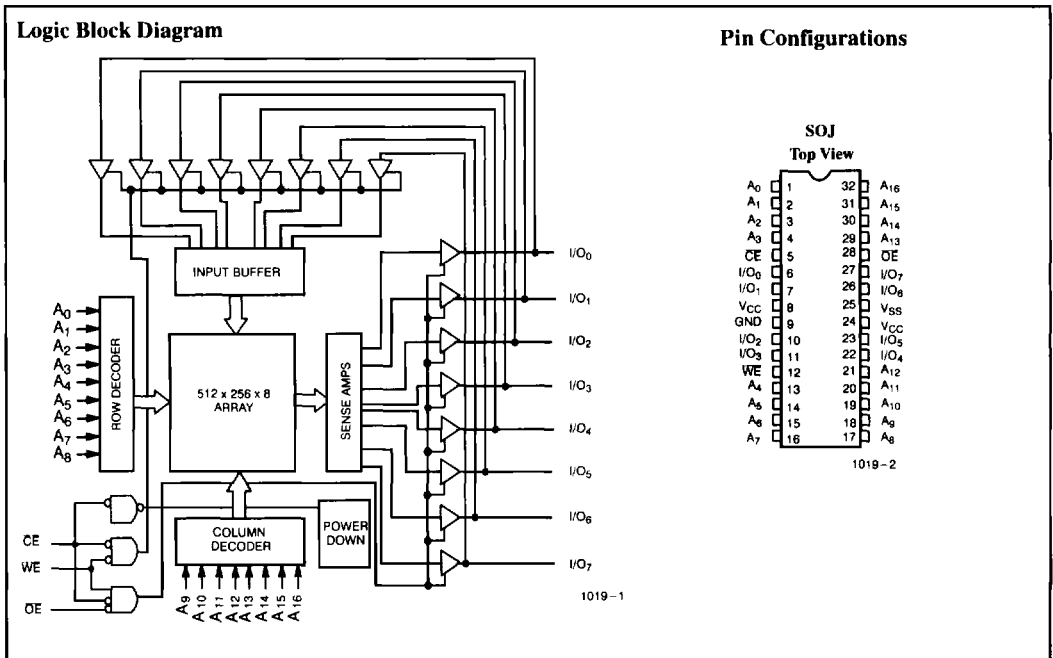
The CY7C1019 is a high-performance CMOS static RAM organized as 131,072 words by 8 bits. Easy memory expansion is provided by an active LOW chip enable ( $\overline{CE}$ ), an active LOW output enable ( $\overline{OE}$ ), and three-state drivers. This device has an automatic power-down feature that significantly reduces power consumption significantly when deselected.

Writing to the device is accomplished by taking chip enable ( $\overline{CE}$ ) and write enable ( $\overline{WE}$ ) inputs LOW. Data on the eight I/O pins ( $I/O_0$  through  $I/O_7$ ) is then written into the location specified on the address pins ( $A_0$  through  $A_{16}$ ).

Reading from the device is accomplished by taking chip enable ( $\overline{CE}$ ) and output enable ( $\overline{OE}$ ) LOW while forcing write enable ( $\overline{WE}$ ) HIGH. Under these conditions, the contents of the memory location specified by the address pins will appear on the I/O pins.

The eight input/output pins ( $I/O_0$  through  $I/O_7$ ) are placed in a high-impedance state when the device is deselected ( $\overline{CE}$  HIGH), the outputs are disabled ( $\overline{OE}$  HIGH), or during a write operation ( $\overline{CE}$  LOW, and  $\overline{WE}$  LOW).

The CY7C1019 is available in standard 400-mil-wide SOJs.



Selection Guide

		7C1019-10	7C1019-12	7C1019-15
Maximum Access Time (ns)		10	12	15
Maximum Operating Current (mA)	Commercial	195	185	170
	Military		195	180
Maximum Standby Current (mA)	Commercial	50	45	40
	Military		50	40

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