

P4C148, P4C149 ULTRA HIGH SPEED 1K x 4 STATIC CMOS RAMS



FEATURES

- Full CMOS, 6T Cell
- High Speed (Equal Access and Cycle Times)
 - 10/12/15/20/25 ns (Commercial)
 - 15/20/25/35 ns (P4C148 Military)
- Low Power Operation
 - 715 mW Active –10 (Commercial)
 - 550 mW Active –25 (Commercial)
 - 110 mW Standby (TTL Input) P4C148
 - 55 mW Standby (CMOS Input) P4C148
- Single 5V ± 10% Power Supply
- Two Options
 - P4C148 Low Power Standby Mode
 - P4C149 Fast Chip Select Control
- Common Input/Output Ports
- Three-State Outputs
- Fully TTL Compatible Inputs and Outputs
- Standard Pinout (JEDEC Approved)
 - 18 Pin 300 mil DIP



DESCRIPTION

The P4C148 and P4C149 are 4,096-bit ultra high-speed static RAMs organized as 1K x 4. Both devices have common input/output ports. The P4C148 enters the standby mode when the chip enable (\overline{CE}) goes HIGH; with CMOS input levels, power consumption is extremely low in this mode. The P4C149 features a fast chip select capability using \overline{CS} . The CMOS memories require no clocks or refreshing, and have equal access and cycle times. Inputs are fully TTL-compatible. The RAMs operate from a single 5V ± 10% tolerance power supply.

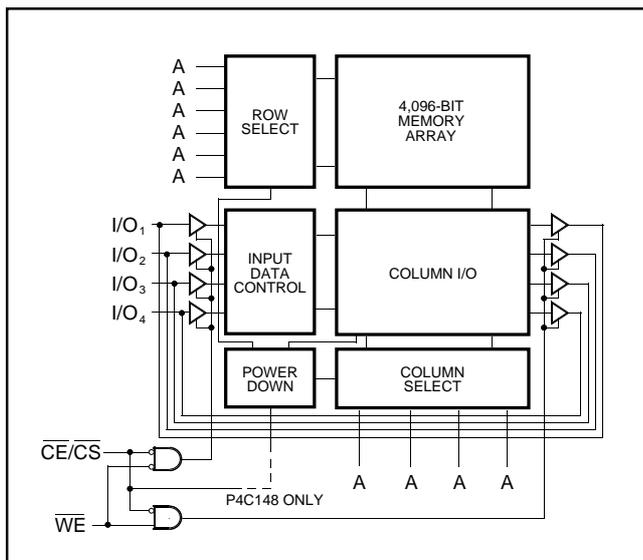
Access times as fast as 10 nanoseconds are available, permitting greatly enhanced system operating speeds.

CMOS is used to reduce power consumption when active; for the P4C148, consumption is further reduced in the standby mode.

The P4C148 and P4C149 are available in 18-pin 300 mil DIP packages providing excellent board level densities.



FUNCTIONAL BLOCK DIAGRAM



PIN CONFIGURATIONS

