

DALLAS

SEMICONDUCTOR

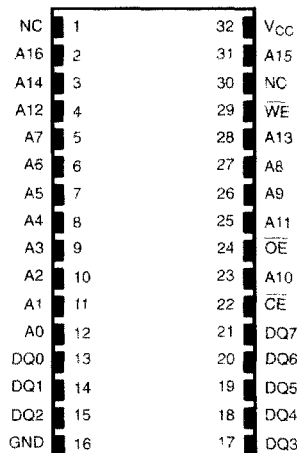
DS1245W

3.3V 1024K Nonvolatile SRAM

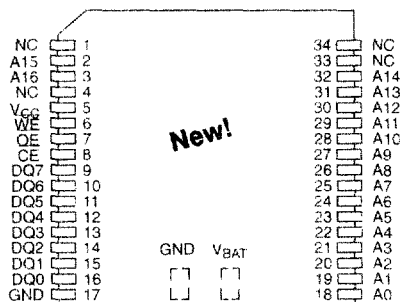
FEATURES

- 10 years minimum data retention in the absence of external power
- Data is automatically protected during power loss
- Replaces 128K x 8 volatile static RAM, EEPROM or Flash memory
- Unlimited write cycles
- Low-power CMOS
- Read and write access times as fast as 150 ns
- Lithium energy source is electrically disconnected to retain freshness until power is applied for the first time
- Optional industrial temperature range of -40°C to $+85^{\circ}\text{C}$, designated IND
- JEDEC standard 32-pin DIP package
- New PowerCap Module (PCM) package
 - Directly surface-mountable module
 - Replaceable snap-on PowerCap provides lithium backup battery
 - Standardized pinout for all nonvolatile SRAM products
 - Detachment feature on PowerCap allows easy removal using a regular screwdriver

PIN ASSIGNMENT



32-PIN ENCAPSULATED PACKAGE
740 MIL EXTENDED



34-PIN POWERCAP MODULE (PCM)
(USES DS9034PC POWERCAP)

PIN DESCRIPTION

- A0 – A16 – Address Inputs
- DQ0 – DQ7 – Data In/Data Out
- $\overline{\text{CE}}$ – Chip Enable
- $\overline{\text{WE}}$ – Write Enable
- $\overline{\text{OE}}$ – Output Enable
- V_{CC} – Power (+3.3V)
- GND – Ground
- NC – No Connect