Am99C328

32,768 x 8 Static R/W Random-Access Memory

ADVANCE INFORMATION

DISTINCTIVE CHARACTERISTICS

- Fast access time — 45/55/70/100 ns Maximum
- 32K x 8 organization
- Output Enable $\overline{G}$ ($\overline{OE}$) control to alleviate bus contention
- Single 5 V ±10% power supply operation
- Fully static storage and interface circuitry
- Automatic Power-Down when deselected
- Low power dissipation
  - 400 mW typical operating power
  - 125 mW maximum standby power for TTL interface levels
- 2 V data retention capability
- 28-pin, 0.6-inch DIP

GENERAL DESCRIPTION

The Am99C328 is a high-performance, 32,768 x 8-Bit Static Read/Write Random-Access Memory manufactured with state-of-the-art CMOS processing techniques.

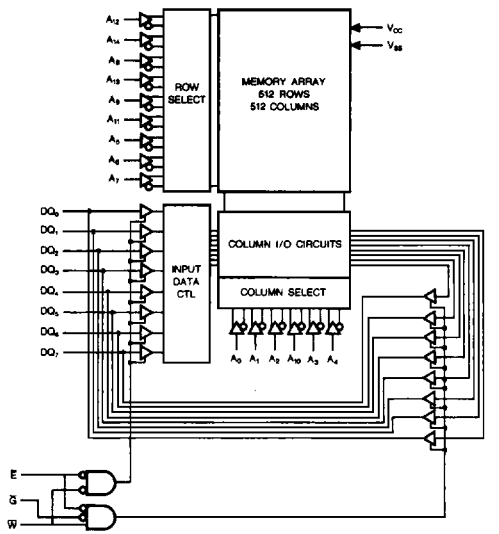
The Am99C328 features three control signals, $\overline{E}$ ($\overline{CE}$), $\overline{W}$ ($\overline{WE}$), and $\overline{G}$ ($\overline{OE}$), to facilitate not only memory expansion, but also alleviate any bus contention conditions which might limit high-performance Read/Write operation. While $\overline{W}$ ($\overline{WE}$) activates only the input buffers during a write cycle, $\overline{G}$ ($\overline{OE}$) activates only the output buffers during a read cycle.

$\overline{E}$ ($\overline{CE}$) controls the selection/deselection of the entire device irrespective of read or write and powers down the device when $\overline{E}$ ($\overline{CE}$) is inactive. All input/output interface levels are fully TTL compatible for the Am99C328.

The Am99C328 requires a single 5 V power supply while operating, but will hold the data when the power-supply level is maintained at voltages as low as 2 V.

The Am99C328 is available in a 28-pin, 0.6-inch wide, dual-in-line, side/brazed package.

BLOCK DIAGRAM



BD006531

PRODUCT SELECTOR GUIDE

Part Number	Am99C328-45	Am99C328-55	Am99C328-70	Am99C328-10
Access Time Max. (ns)	45	55	70	100
I_{CC} Max. (mA) 0 to +70°C	120	120	120	120
I_{CC} Max. (mA) −55 to +125°C	NA	140	140	140

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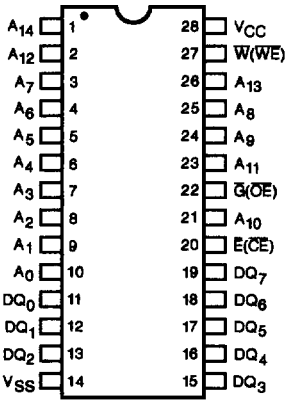
CONNECTION DIAGRAM
Top View



CD009700

ADDRESS DESIGNATORS

External	Internal	Pin Number
A_{14}	AY_5	1
A_{12}	AX_6	2
A_7	AX_5	3
A_6	AX_4	4
A_5	AX_3	5
A_4	AX_2	6
A_3	AY_4	7
A_2	AY_3	8
A_1	AY_2	9
A_0	AY_1	10
A_{10}	AY_0	21
A_{11}	AX_1	23
A_9	AX_0	24
A_8	AX_8	25
A_{13}	AX_7	26