16-Mbit (1M x 16) Static RAM

Part Number: DPA71061DV3302A

The DPA71061DV3302A is a high-performance CMOS Static RAM organized as 1,048,576 words by 16 bits.

Writing to the device is accomplished by enabling the chip ($\overline{CE}_1$ LOW and CE_2 HIGH) while forcing the Write Enable ($\overline{WE}$) input LOW. If Byte Low Enable ($\overline{BLE}$) is LOW, then data from I/O pins (I/O$_0$ through I/O$_7$), is written into the location specified on the address pins (A$_0$ through A$_{19}$). If Byte High Enable ($\overline{BHE}$) is LOW, then data from I/O pins (I/O$_8$ through I/O$_{15}$) is written into the location specified on the address pins (A$_0$ through A$_{19}$).

Reading from the device is accomplished by enabling the chip by taking $\overline{CE}_1$ LOW and CE_2 HIGH while forcing the Output Enable ($\overline{OE}$) LOW and the Write Enable ($\overline{WE}$) HIGH. If Byte Low Enable ($\overline{BLE}$) is LOW, then data from the memory location specified by the address pins will appear on I/O$_0$ through I/O$_7$. If Byte High Enable ($\overline{BHE}$) is LOW, then data from memory will appear on I/O$_8$ to I/O$_{15}$.

The Input/ Output pins (I/O$_0$ through I/O$_{15}$) are placed in a high-impedance state when the device is deselected ($\overline{CE}_1$ HIGH/CE_2 LO), the outputs are disabled
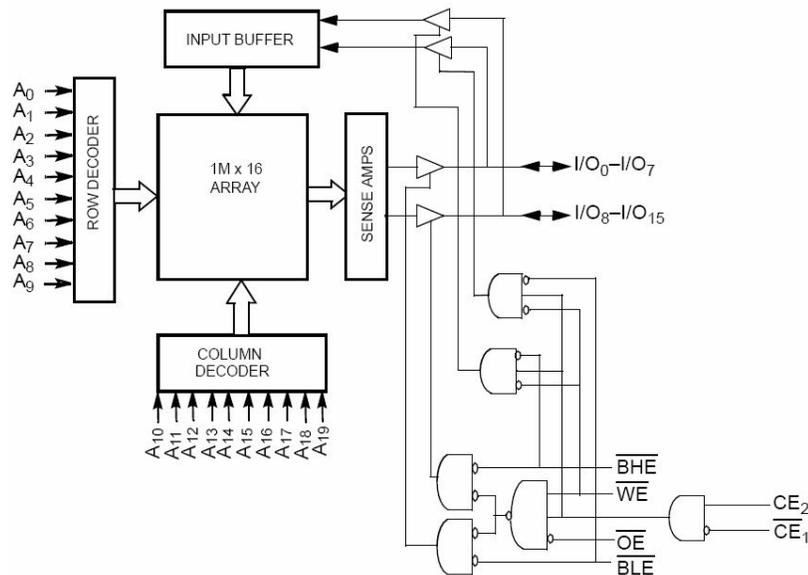
- **-55˚ to +125˚C operating temperature**
- **High speed**
  - t_{AA} = 12 ns
- **Low active power**
  - I_{CC} = 125 mA @ 12 ns
- **Low CMOS standby power**
  - I_{SB2} = 25 mA
- **Supply voltage**
  - **3.3 V dc**
- **2.0V data retention**
- **Automatic power-down when deselected**
- **TTL-compatible inputs and outputs**
- **Easy memory expansion with $\overline{CE}_1$ and CE_2 features**
- **54-pin SO ceramic flatpack, same footprint as 54-pin TSOP II**
- **Custom packaging is available**
- **This product uses Cypress CY7C1061DV33 die and is tested to meet military and space operational environment requirements**

Logic Block Diagram

Pin Configuration

DPA Components International…. 2251 Ward Avenue…. Simi Valley, CA 93065…. (805) 581- 9200