

Memories

- Non-volatile memory
 - A non-volatile memory can keep the data if it's unpowered.
- Volatile memory
 - A volatile memory can't keep information without any external power.

RAM, Random Access Memory

- SRAM, Static RAM

http://en.wikipedia.org/wiki/Static_random-access_memory

- DRAM, Dynamic RAM

http://en.wikipedia.org/wiki/Dynamic_random_access_memory

- FRAM, Ferroelectric RAM

http://en.wikipedia.org/wiki/Ferroelectric_RAM

ROM memories

- EPROM

<http://en.wikipedia.org/wiki/EPROM>

- EEPROM

<http://en.wikipedia.org/wiki/EEPROM>

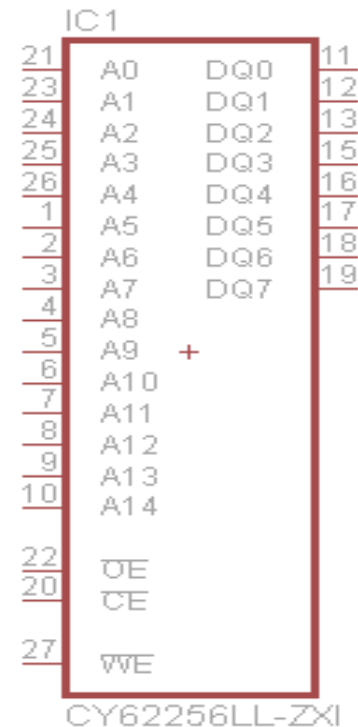
Flash Memory

- Non-volatile memory that can be electrically erased and reprogrammed. It was developed from EEPROM (electrically erasable programmable read-only memory) and must be erased in fairly large blocks before these can be rewritten with new data

http://en.wikipedia.org/wiki/Flash_memory

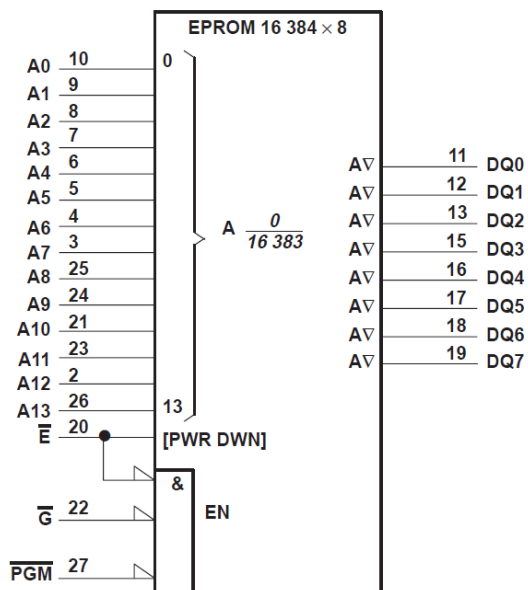
Example RAM Circuit

- A0-A14, address bus interface
- DQ0-DQ7, data bus interface
- Control bus interface
 - Chip enable (CE)
 - Read (=output enable=OE)
 - Write (=write enable=WE)

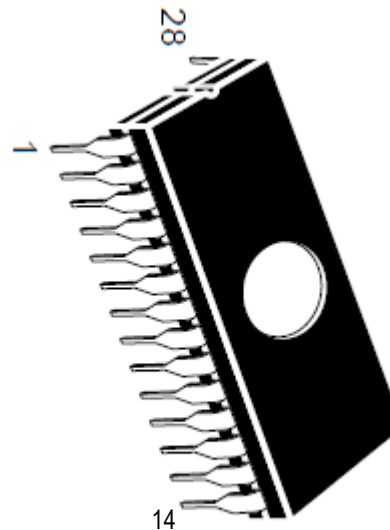


Example EPROM Circuit

Schematic symbol



Physical package



Layout symbol

