

EEPROM

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Types of ROM

- ROM : Mask Programmable ROM (MROM)
- EPROM : UV Erasable ROM
- OTP : One Time Programmable EPROM
- EEPROM : Electrically Erasable and Programmable ROM
- Flash Memory

What is EEPROM

- Electrically Erasable Programmable Read Only Memory
- It's is non-volatile memory which keep holding data even if power is losses.
- The content of EEPROM may be changed during operation (similar to RAM), but remains permanently saved even upon the power supply goes off(similar to ROM)
- It can be found inside microcontroller or outside the microcontroller
- ESP8266 has 4096 bytes of EEPROM

Arduino EEPROM Lib

Functions	Description
<code>EEPROM.begin(size_t size)</code>	This function begins eeprom with mentioned byte size max byte size is 4096 Ex: <code>EEPROM.begin(20);</code> // starts EEPROM with size 20 bytes
<code>EEPROM.read(int const address)</code>	This returns byte value stored in mentioned address ex: <code>bValue= EEPROM.read(10);</code> // returns value stored in address 10
<code>EEPROM.write(int const address, uint8_t value);</code>	This functions writes value to mentioned address. Ex: <code>EEPROM.write(10,123);</code> // here writes value 123 to address location 10
<code>EEPROM.commit();</code>	This function stores all write values to EEPROM. EX: <code>EEPROM.commit();</code>