

# EEPROM AVR

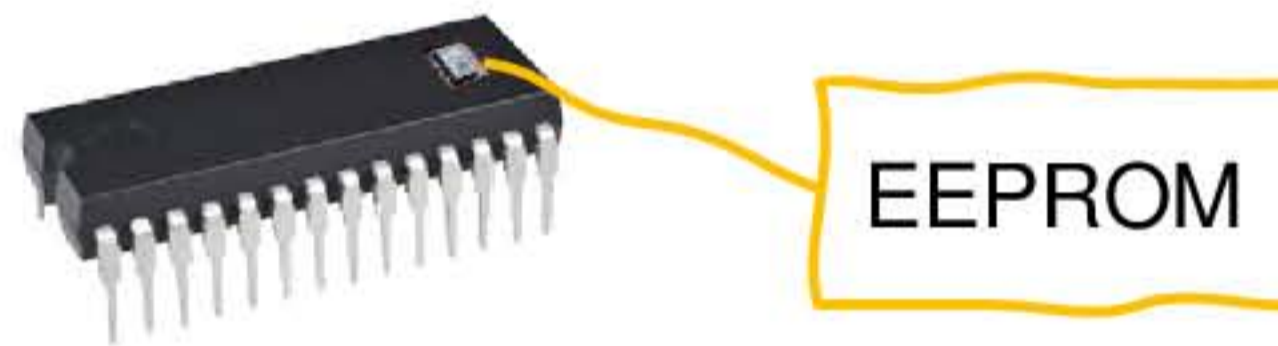
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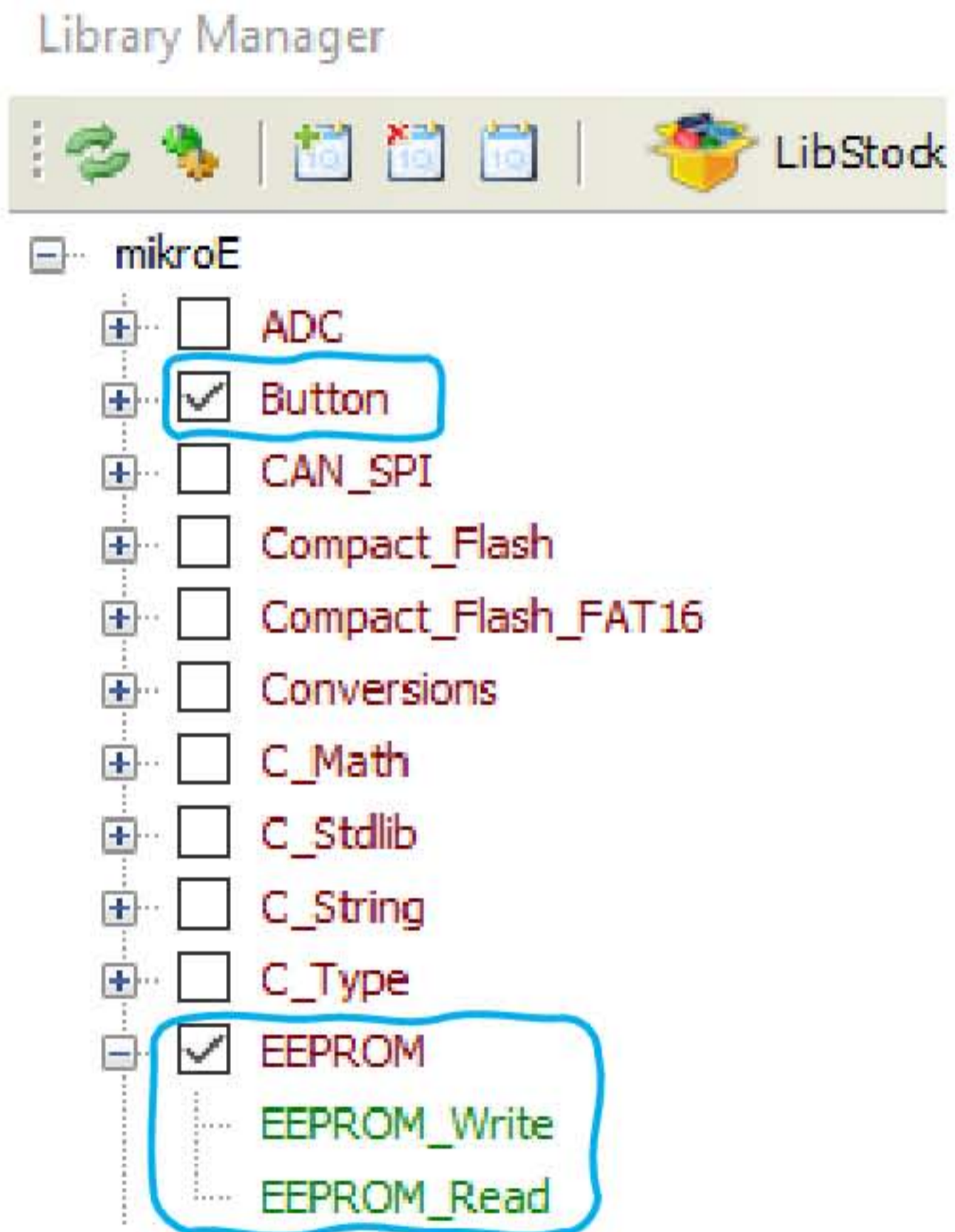
# Características

- 🌐 A família Microchip traz em seus microcontroladores uma memória EEPROM interna



- 🌐 O ATMEGA328p possui **1024** endereços de EEPROM
  - ☒ De **0x000** a **0x3FF**
- 🌐 Armazenam **um byte** em **cada endereço**

# Usando o MikroC



# Sintaxe

```
EEPROM_Write(endereco, dado);
```

- 🌐 Cuidado pois endereço é **int** e dado é **char**
  - ❌ **char** ocupa 1 byte e cabe de **0** a **255**
  - ❌ **int** ocupa 2 bytes e cabe de **0** a **65535**

```
Destino = EEPROM_Read(endereco);
```

- 🌐 Destino (**char** ou **int**)
- 🌐 Endereço deve ser **int**

# Cuidados

**Project Settings:**

Project Name: EEPROM  
Project folder: C:\AVRMikroC\ Browse  
Device name: ATMEGA328P  
Device clock: 16.000000 MHz  
Open Edit Project window to set Configuration bits

Edit Project

CKDIV8     SPIEN  
 CKOUT     WDTON  
 RSTDISBL     EESAVE  
 DWEN     BOOTRST

Brown-out detection level at VCC=4.3 V

Boot Flash section size=2048 words; Boot start address=\$3800

Start-up time PWRDWN/RESET: 1K CK /14 CK + 65 ms

Ext. Crystal Osc., Frequency > 8.0 MHz, Slow startup

MCU and Oscillator

MCU Name: ATMEGA328P  
MCU Clock Frequency [MHz]: 16.000000

Program Memory is used for:

Application (Boot Flash Section is reserved)  
 Application (Boot Flash Section can be used)  
 Bootloader

Heap  
Size: 0

Configuration Registers

LOW	= 0xCF	= 1100 1111
HIGH	= 0xD9	= 1101 1001
EXTENDED	= 0xFC	= 1111 1100