

`stamp.peripheral.memory.eeprom`

## Class MC24LC256

[java.lang.Object](#)

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+--`stamp.peripheral.memory.eeprom.MC24LC256`

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```
public class MC24LC256
```

```
extends Object
```

This class will record a value onto an external Microchip 24LC256 eeprom. You may use up to 8 eeproms, each one will have it's own unique address. For technical specifications on wiring the chip for a unique address refer to Microchip's website: [www.microchip.com](http://www.microchip.com).

Constructor requires data pin and clock pin as parameters. Device numbers in read and write methods refer to the unique address of the target 24LC256 chip (numbered 0-7). The class is based on the Parallax I2C class (v1.1) for bus communication.

Revision History:

10/21/02 Ver 1.1 - Final class submission to Parallax Inc. from John Cole.

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### Constructor Summary

[MC24LC256](#)(int sdaPin, int sclPin)

Constructor requiring CPU.pins for data and clock pins

### Method Summary

static int

[readNext](#)(int dev)

	Method to read a single byte from the external eeprom at the current address
static int	<a href="#">readRandom</a> (int dev, int add) Method to read a single byte from the external eeprom at a random address
static boolean	<a href="#">writeOne</a> (int dev, int add, byte vals) Method to write a single byte to the external eeprom.
static boolean	<a href="#">writePage</a> (int dev, int add, byte[] vals) Method to write an array of bytes to the external eeprom using the page write functions.
static boolean	<a href="#">writeVerify</a> (int dev, int add, byte vals) Method to write a single byte to the external eeprom and verify that it was written correctly

Methods inherited from class java.lang.[Object](#)

[equals](#)

## Constructor Detail

### MC24LC256

```
public MC24LC256(int sdaPin,
                 int sclPin)
```

Constructor requiring CPU.pins for data and clock pins

#### Parameters:

sdaPin - data pin from stamp  
sclPin - clock pin from stamp

## Method Detail

### writePage

```
public static boolean writePage(int dev,
                                int add,
                                byte[] vals)
```

Method to write an array of bytes to the external eeprom using the page write functions.

This method will catch any 'roll over' to the start of the next page if you go beyond a page boundary (64 bytes).

**Parameters:**

dev - device number for external eeprom  
add - address on the device  
vals - byte array of values to be written

**Returns:**

-1 if error occurs 1 otherwise

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## **writeOne**

```
public static boolean writeOne(int dev,  
                               int add,  
                               byte vals)
```

Method to write a single byte to the external eeprom.

**Parameters:**

dev - device number for external eeprom  
add - address on the device

---

## **writeVerify**

```
public static boolean writeVerify(int dev,  
                                   int add,  
                                   byte vals)
```

Method to write a single byte to the external eeprom and verify that it was written correctly

**Parameters:**

dev - device number for external eeprom  
add - address on the device

**Returns:**

boolean value verifying correct value written

---

## readNext

```
public static int readNext(int dev)
```

Method to read a single byte from the external eeprom at the current address

**Parameters:**

dev - device number for external eeprom

**Returns:**

read value

---

## readRandom

```
public static int readRandom(int dev,  
                               int add)  
    throws MC24LC256BadReadException
```

Method to read a single byte from the external eeprom at a random address

**Parameters:**

dev - device number for external eeprom

add - address on the device

[MC24LC256BadReadException](#)

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*Javelin Stamp*

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