Zmotor 3 Library

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1 Hierarchical Index

1.1 Class Hierarchy

This inheritance list is sorted roughly, but not completely, alphabetically:

PinExtender

Zmotor3 **2**

2 Data Structure Index

2.1 Data Structures

Here are the data structures with brief descriptions:

Zmotor3
Class that stores state and functions for interacting with ZPCA9685 PWM chip 2

3 File Index

3.1 File List

Here is a list of all files with brief descriptions:

Zmotor3.cpp 9

Zmotor3.h 9

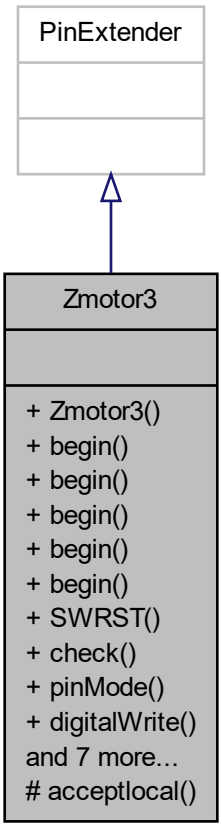
4 Data Structure Documentation

4.1 Zmotor3 Class Reference

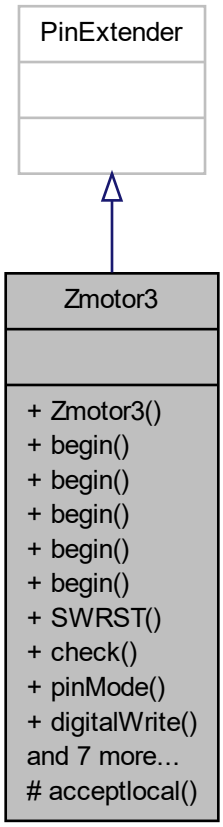
Class that stores state and functions for interacting with ZPCA9685 PWM chip.

`#include <Zmotor3.h>`

Inheritance diagram for Zmotor3:



Collaboration diagram for Zmotor3:



Public Member Functions

- Zmotor3 ()

  Instantiates a new Zmotor3 PWM driver chip with the I2C address on the Wire interface. On Due we use Wire1 since its the interface on the 'default' I2C pins.
- void begin (TwoWire ∗MyWire, uint8_t addr1)

  Setups the I2C interface and hardware.
- void begin (TwoWire ∗i2c, uint8_t addrio, uint8_t addrpwm)
- void begin (uint8_t addr, uint8_t addr2)
- void begin (uint8_t addr)

  Setups the I2C interface and hardware.
- void begin (void)

  Setups the I2C interface and hardware.
- void SWRST (void)
- bool check ()
- void pinMode (uint32_t p, uint8_t d)
- void digitalWrite (uint32_t p, uint8_t d)
- uint8_t digitalRead (uint32_t p)
- void analogWrite (uint32_t ulPin, uint32_t ulValue)

- void analogWriteResolution (int res)
- uint32_t getPin (uint32_t ulPin)
- void reset (void)

  Sends a reset command to the Zmotor3 chip over I2C.
- uint32_t analogRead (uint32_t pin)
- void setPWMFreq (float freq)

  Sets the PWM frequency for the entire chip, up to ~1.6 KHz.

Protected Member Functions

- bool acceptlocal (uint32_t p)

4.1.1 Detailed Description

Class that stores state and functions for interacting with ZPCA9685 PWM chip.

Definition at line 95 of file Zmotor3.h.

4.1.2 Constructor & Destructor Documentation

4.1.2.1 Zmotor3()

```
Zmotor3::Zmotor3 ( )
```

Instantiates a new Zmotor3 PWM driver chip with the I2C address on the Wire interface. On Due we use Wire1 since its the interface on the 'default' I2C pins.

Parameters

addr	The 7-bit I2C address to locate this chip, default is 0x40

Definition at line 30 of file Zmotor3.cpp.

4.1.3 Member Function Documentation

4.1.3.1 acceptlocal()

```
bool Zmotor3::acceptlocal (
            uint32_t p )  [protected]
```

Definition at line 100 of file Zmotor3.cpp.

4.1.3.2 analogRead()

```
uint32_t Zmotor3::analogRead (
            uint32_t pin )
```

Definition at line 178 of file Zmotor3.cpp.

4.1.3.3 analogWrite()

```
void Zmotor3::analogWrite (
            uint32_t ulPin,
            uint32_t ulValue )
```

Definition at line 146 of file Zmotor3.cpp.

4.1.3.4 analogWriteResolution()

```
void Zmotor3::analogWriteResolution (
            int res )
```

Definition at line 139 of file Zmotor3.cpp.

4.1.3.5 begin() [1/5]

```
void Zmotor3::begin (
            TwoWire * MyWire,
            uint8_t addr1 )
```

Setups the I2C interface and hardware.

Definition at line 40 of file Zmotor3.cpp.

References begin(), MCP23017_ADDR_BASE, and PCA9685_ADDR_BASE.

Here is the call graph for this function:

4.1.3.6 begin() [2/5]

```
void Zmotor3::begin (
            TwoWire * i2c,
            uint8_t addrio,
            uint8_t addrpwm )
```

Definition at line 44 of file Zmotor3.cpp.

4.1.3.7 begin() [3/5]

```
void Zmotor3::begin (
            uint8_t addr,
            uint8_t addr2 )
```

4.1.3.8 begin() [4/5]

```
void Zmotor3::begin (
            uint8_t addr )
```

Setups the I2C interface and hardware.

Definition at line 61 of file Zmotor3.cpp.

References begin().

Here is the call graph for this function:

4.1.3.9 begin() [5/5]

```
void Zmotor3::begin (
            void  )
```

Setups the I2C interface and hardware.

Definition at line 71 of file Zmotor3.cpp.

Referenced by begin().

Here is the caller graph for this function:

4.1.3.10 check()

```
bool Zmotor3::check ( )
```

4.1.3.11 digitalRead()

```
uint8_t Zmotor3::digitalRead (
            uint32_t ulPin )
```

dummy function

Definition at line 113 of file Zmotor3.cpp.

4.1.3.12 digitalWrite()

```
void Zmotor3::digitalWrite (
            uint32_t p,
            uint8_t d )
```

Definition at line 182 of file Zmotor3.cpp.

4.1.3.13 getPin()

```
uint32_t Zmotor3::getPin (
            uint32_t ulPin )
```

Definition at line 159 of file Zmotor3.cpp.

References MCP23017_ADDR_BASE, and PCA9685_ADDR_BASE.

4.1.3.14 pinMode()

```
void Zmotor3::pinMode (
            uint32_t ulPin,
            uint8_t mode )
```

Sets the pin mode to either INPUT or OUTPUT but for all, and input doesn't exist

Definition at line 127 of file Zmotor3.cpp.

4.1.3.15 reset()

```
void Zmotor3::reset (
            void  )
```

Sends a reset command to the Zmotor3 chip over I2C.

Definition at line 84 of file Zmotor3.cpp.

4.1.3.16 setPWMFreq()

```
void Zmotor3::setPWMFreq (
            float freq )
```

Sets the PWM frequency for the entire chip, up to ~1.6 KHz.

Parameters

freq	Floating point frequency that we will attempt to match

Definition at line 95 of file Zmotor3.cpp.

4.1.3.17 SWRST()

```
void Zmotor3::SWRST (
            void  )
```

The documentation for this class was generated from the following files:

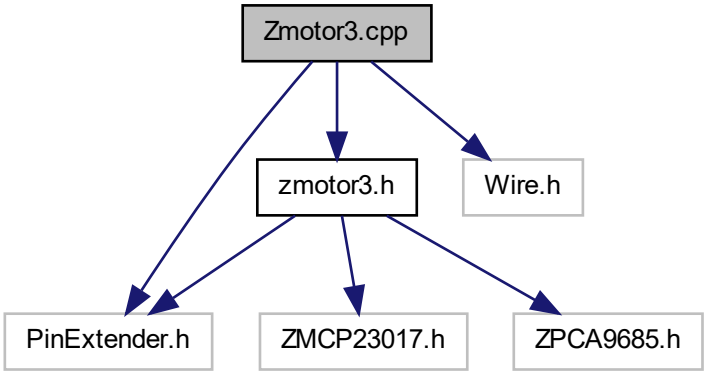
- Zmotor3.h
- Zmotor3.cpp

5 File Documentation

5.1 Zmotor3.cpp File Reference

```
#include "zmotor3.h"
#include <Wire.h>
#include "PinExtender.h"
```

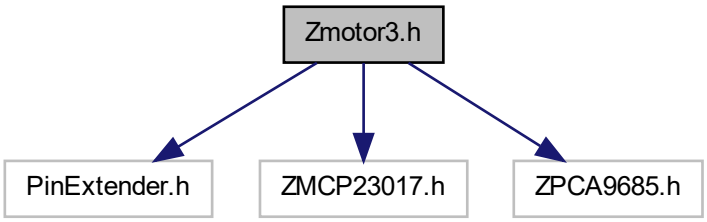
Include dependency graph for Zmotor3.cpp:



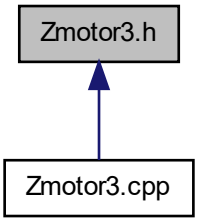
5.2 Zmotor3.h File Reference

```
#include "PinExtender.h"
#include <ZMCP23017.h>
#include <ZPCA9685.h>
```

Include dependency graph for Zmotor3.h:



This graph shows which files directly or indirectly include this file:



Data Structures

- class Zmotor3

  Class that stores state and functions for interacting with ZPCA9685 PWM chip.

Macros

- #define MCP23017_ADDR_BASE 0x20
- #define PCA9685_ADDR_BASE 0x40
- #define MOTOR3_IO_0 (MCP23017_GPB1 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_1 (MCP23017_GPB3 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_2 (MCP23017_GPB5 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_3 (MCP23017_GPB7 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_4 (MCP23017_GPA1 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_5 (MCP23017_GPA3 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_6 (MCP23017_GPA5 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_IO_7 (MCP23017_GPA7 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_0 (MCP23017_GPB0 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_1 (MCP23017_GPB2 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_2 (MCP23017_GPB4 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_3 (MCP23017_GPB6 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_4 (MCP23017_GPA0 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_5 (MCP23017_GPA2 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_6 (MCP23017_GPA4 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_EN_7 (MCP23017_GPA6 | MCP23017_ADDR_BASE<<16)
- #define MOTOR3_PWM_0 (PCA9685_LED3 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_1 (PCA9685_LED2 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_2 (PCA9685_LED1 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_3 (PCA9685_LED0 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_4 (PCA9685_LED4 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_5 (PCA9685_LED5 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_6 (PCA9685_LED6 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_PWM_7 (PCA9685_LED7 | PCA9685_ADDR_BASE<<16)
- #define MOTOR3_P8_PWM MOTOR3_PWM_0
- #define MOTOR3_P8_IO MOTOR3_IO_0
- #define MOTOR3_P8_EN MOTOR3_EN_0

- #define MOTOR3_P12_PWM MOTOR3_PWM_1
- #define MOTOR3_P12_IO MOTOR3_IO_1
- #define MOTOR3_P12_EN MOTOR3_EN_1
- #define MOTOR3_P7_PWM MOTOR3_PWM_2
- #define MOTOR3_P7_IO MOTOR3_IO_2
- #define MOTOR3_P7_EN MOTOR3_EN_2
- #define MOTOR3_P11_PWM MOTOR3_PWM_3
- #define MOTOR3_P11_IO MOTOR3_IO_3
- #define MOTOR3_P11_EN MOTOR3_EN_3
- #define MOTOR3_P6_PWM MOTOR3_PWM_4
- #define MOTOR3_P6_IO MOTOR3_IO_4
- #define MOTOR3_P6_EN MOTOR3_EN_4
- #define MOTOR3_P10_PWM MOTOR3_PWM_5
- #define MOTOR3_P10_IO MOTOR3_IO_5
- #define MOTOR3_P10_EN MOTOR3_EN_5
- #define MOTOR3_P9_PWM MOTOR3_PWM_6
- #define MOTOR3_P9_IO MOTOR3_IO_6
- #define MOTOR3_P9_EN MOTOR3_EN_6
- #define MOTOR3_P13_PWM MOTOR3_PWM_7
- #define MOTOR3_P13_IO MOTOR3_IO_7
- #define MOTOR3_P13_EN MOTOR3_EN_7

5.2.1 Macro Definition Documentation

5.2.1.1 MCP23017_ADDR_BASE

```
#define MCP23017_ADDR_BASE 0x20
```

Definition at line 27 of file Zmotor3.h.

Referenced by Zmotor3::begin(), and Zmotor3::getPin().

5.2.1.2 MOTOR3_EN_0

```
#define MOTOR3_EN_0 (MCP23017_GPB0 | MCP23017_ADDR_BASE<<16)
```

Definition at line 38 of file Zmotor3.h.

5.2.1.3 MOTOR3_EN_1

```
#define MOTOR3_EN_1 (MCP23017_GPB2 | MCP23017_ADDR_BASE<<16)
```

Definition at line 39 of file Zmotor3.h.

5.2.1.4 MOTOR3_EN_2

```
#define MOTOR3_EN_2 (MCP23017_GPB4 | MCP23017_ADDR_BASE<<16)
```

Definition at line 40 of file Zmotor3.h.

5.2.1.5 MOTOR3_EN_3

```
#define MOTOR3_EN_3 (MCP23017_GPB6 | MCP23017_ADDR_BASE<<16)
```

Definition at line 41 of file Zmotor3.h.

5.2.1.6 MOTOR3_EN_4

```
#define MOTOR3_EN_4 (MCP23017_GPA0 | MCP23017_ADDR_BASE<<16)
```

Definition at line 42 of file Zmotor3.h.

5.2.1.7 MOTOR3_EN_5

```
#define MOTOR3_EN_5 (MCP23017_GPA2 | MCP23017_ADDR_BASE<<16)
```

Definition at line 43 of file Zmotor3.h.

5.2.1.8 MOTOR3_EN_6

```
#define MOTOR3_EN_6 (MCP23017_GPA4 | MCP23017_ADDR_BASE<<16)
```

Definition at line 44 of file Zmotor3.h.

5.2.1.9 MOTOR3_EN_7

```
#define MOTOR3_EN_7 (MCP23017_GPA6 | MCP23017_ADDR_BASE<<16)
```

Definition at line 45 of file Zmotor3.h.

5.2.1.10 MOTOR3_IO_0

```
#define MOTOR3_IO_0 (MCP23017_GPB1 | MCP23017_ADDR_BASE<<16)
```

Definition at line 29 of file Zmotor3.h.

5.2.1.11 MOTOR3_IO_1

```
#define MOTOR3_IO_1 (MCP23017_GPB3 | MCP23017_ADDR_BASE<<16)
```

Definition at line 30 of file Zmotor3.h.

5.2.1.12 MOTOR3_IO_2

```
#define MOTOR3_IO_2 (MCP23017_GPB5 | MCP23017_ADDR_BASE<<16)
```

Definition at line 31 of file Zmotor3.h.

5.2.1.13 MOTOR3_IO_3

```
#define MOTOR3_IO_3 (MCP23017_GPB7 | MCP23017_ADDR_BASE<<16)
```

Definition at line 32 of file Zmotor3.h.

5.2.1.14 MOTOR3_IO_4

```
#define MOTOR3_IO_4 (MCP23017_GPA1 | MCP23017_ADDR_BASE<<16)
```

Definition at line 33 of file Zmotor3.h.

5.2.1.15 MOTOR3_IO_5

```
#define MOTOR3_IO_5 (MCP23017_GPA3 | MCP23017_ADDR_BASE<<16)
```

Definition at line 34 of file Zmotor3.h.

5.2.1.16 MOTOR3_IO_6

```
#define MOTOR3_IO_6 (MCP23017_GPA5 | MCP23017_ADDR_BASE<<16)
```

Definition at line 35 of file Zmotor3.h.

5.2.1.17 MOTOR3_IO_7

```
#define MOTOR3_IO_7 (MCP23017_GPA7 | MCP23017_ADDR_BASE<<16)
```

Definition at line 36 of file Zmotor3.h.

5.2.1.18 MOTOR3_P10_EN

```
#define MOTOR3_P10_EN MOTOR3_EN_5
```

Definition at line 79 of file Zmotor3.h.

5.2.1.19 MOTOR3_P10_IO

```
#define MOTOR3_P10_IO MOTOR3_IO_5
```

Definition at line 78 of file Zmotor3.h.

5.2.1.20 MOTOR3_P10_PWM

```
#define MOTOR3_P10_PWM MOTOR3_PWM_5
```

Definition at line 77 of file Zmotor3.h.

5.2.1.21 MOTOR3_P11_EN

```
#define MOTOR3_P11_EN MOTOR3_EN_3
```

Definition at line 71 of file Zmotor3.h.

5.2.1.22 MOTOR3_P11_IO

```
#define MOTOR3_P11_IO MOTOR3_IO_3
```

Definition at line 70 of file Zmotor3.h.

5.2.1.23 MOTOR3_P11_PWM

```
#define MOTOR3_P11_PWM MOTOR3_PWM_3
```

Definition at line 69 of file Zmotor3.h.

5.2.1.24 MOTOR3_P12_EN

```
#define MOTOR3_P12_EN MOTOR3_EN_1
```

Definition at line 62 of file Zmotor3.h.

5.2.1.25 MOTOR3_P12_IO

```
#define MOTOR3_P12_IO MOTOR3_IO_1
```

Definition at line 61 of file Zmotor3.h.

5.2.1.26 MOTOR3_P12_PWM

```
#define MOTOR3_P12_PWM MOTOR3_PWM_1
```

Definition at line 60 of file Zmotor3.h.

5.2.1.27 MOTOR3_P13_EN

```
#define MOTOR3_P13_EN MOTOR3_EN_7
```

Definition at line 87 of file Zmotor3.h.

5.2.1.28 MOTOR3_P13_IO

```
#define MOTOR3_P13_IO MOTOR3_IO_7
```

Definition at line 86 of file Zmotor3.h.

5.2.1.29 MOTOR3_P13_PWM

```
#define MOTOR3_P13_PWM MOTOR3_PWM_7
```

Definition at line 85 of file Zmotor3.h.

5.2.1.30 MOTOR3_P6_EN

```
#define MOTOR3_P6_EN MOTOR3_EN_4
```

Definition at line 75 of file Zmotor3.h.

5.2.1.31 MOTOR3_P6_IO

```
#define MOTOR3_P6_IO MOTOR3_IO_4
```

Definition at line 74 of file Zmotor3.h.

5.2.1.32 MOTOR3_P6_PWM

```
#define MOTOR3_P6_PWM MOTOR3_PWM_4
```

Definition at line 73 of file Zmotor3.h.

5.2.1.33 MOTOR3_P7_EN

```
#define MOTOR3_P7_EN MOTOR3_EN_2
```

Definition at line 67 of file Zmotor3.h.

5.2.1.34 MOTOR3_P7_IO

```
#define MOTOR3_P7_IO MOTOR3_IO_2
```

Definition at line 66 of file Zmotor3.h.

5.2.1.35 MOTOR3_P7_PWM

```
#define MOTOR3_P7_PWM MOTOR3_PWM_2
```

Definition at line 65 of file Zmotor3.h.

5.2.1.36 MOTOR3_P8_EN

```
#define MOTOR3_P8_EN MOTOR3_EN_0
```

Definition at line 58 of file Zmotor3.h.

5.2.1.37 MOTOR3_P8_IO

```
#define MOTOR3_P8_IO MOTOR3_IO_0
```

Definition at line 57 of file Zmotor3.h.

5.2.1.38 MOTOR3_P8_PWM

```
#define MOTOR3_P8_PWM MOTOR3_PWM_0
```

Definition at line 56 of file Zmotor3.h.

5.2.1.39 MOTOR3_P9_EN

```
#define MOTOR3_P9_EN MOTOR3_EN_6
```

Definition at line 83 of file Zmotor3.h.

5.2.1.40 MOTOR3_P9_IO

```
#define MOTOR3_P9_IO MOTOR3_IO_6
```

Definition at line 82 of file Zmotor3.h.

5.2.1.41 MOTOR3_P9_PWM

```
#define MOTOR3_P9_PWM MOTOR3_PWM_6
```

Definition at line 81 of file Zmotor3.h.

5.2.1.42 MOTOR3_PWM_0

```
#define MOTOR3_PWM_0 (PCA9685_LED3 | PCA9685_ADDR_BASE<<16)
```

Definition at line 47 of file Zmotor3.h.

5.2.1.43 MOTOR3_PWM_1

```
#define MOTOR3_PWM_1 (PCA9685_LED2 | PCA9685_ADDR_BASE<<16)
```

Definition at line 48 of file Zmotor3.h.

5.2.1.44 MOTOR3_PWM_2

```
#define MOTOR3_PWM_2 (PCA9685_LED1 | PCA9685_ADDR_BASE<<16)
```

Definition at line 49 of file Zmotor3.h.

5.2.1.45 MOTOR3_PWM_3

```
#define MOTOR3_PWM_3 (PCA9685_LED0 | PCA9685_ADDR_BASE<<16)
```

Definition at line 50 of file Zmotor3.h.

5.2.1.46 MOTOR3_PWM_4

```
#define MOTOR3_PWM_4 (PCA9685_LED4 | PCA9685_ADDR_BASE<<16)
```

Definition at line 51 of file Zmotor3.h.

5.2.1.47 MOTOR3_PWM_5

```
#define MOTOR3_PWM_5 (PCA9685_LED5 | PCA9685_ADDR_BASE<<16)
```

Definition at line 52 of file Zmotor3.h.

5.2.1.48 MOTOR3_PWM_6

```
#define MOTOR3_PWM_6 (PCA9685_LED6 | PCA9685_ADDR_BASE<<16)
```

Definition at line 53 of file Zmotor3.h.

5.2.1.49 MOTOR3_PWM_7

```
#define MOTOR3_PWM_7 (PCA9685_LED7 | PCA9685_ADDR_BASE<<16)
```

Definition at line 54 of file Zmotor3.h.

5.2.1.50 PCA9685_ADDR_BASE

```
#define PCA9685_ADDR_BASE 0x40
```

Definition at line 28 of file Zmotor3.h.

Referenced by Zmotor3::begin(), and Zmotor3::getPin().

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