ZMCP23017 Library

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| Thi | s inhe | eritance list is sorted roughly, but not completely, alphabetically: | |
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| He | re are | e the data structures with brief descriptions: | |

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3 File Index

3.1 File List

Here is a list of all files with brief descriptions:

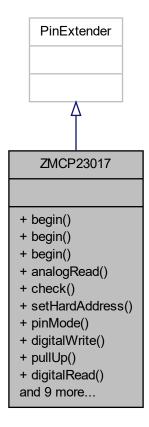
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4 Data Structure Documentation

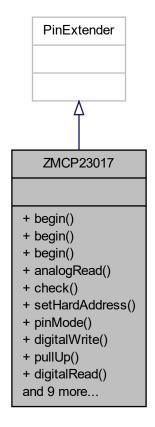
4.1 ZMCP23017 Class Reference

#include <ZMCP23017.h>

Inheritance diagram for ZMCP23017:



Collaboration diagram for ZMCP23017:



Public Member Functions

- void begin (TwoWire *MyWire, uint8_t addr)
- void begin (uint8_t addr)
- void begin (void)
- uint32_t analogRead (uint32_t pin)
- bool check ()
- void setHardAddress (uint8_t A210)
- void pinMode (uint32_t p, uint8_t d)
- void digitalWrite (uint32_t p, uint8_t d)
- void pullUp (uint32_t p, uint8_t d)
- uint8_t digitalRead (uint32_t p)
- word digitalWordRead ()
- void digitalWordWrite (word w)
- void inputPolarityMask (word mask)
- void inputOutputMask (word mask)
- void internalPullupMask (word mask)
- void setWire (TwoWire *MyWire)
- void analogWrite (uint32_t ulPin, uint32_t ulValue)
- void analogWriteResolution (int res)
- bool acceptlocal (uint32_t p)

4.1.1 Detailed Description

Definition at line 52 of file ZMCP23017.h.

4.1.2 Member Function Documentation

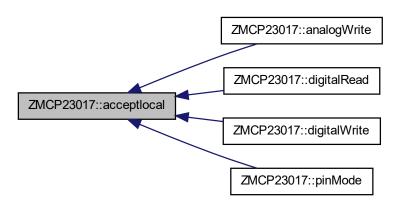
4.1.2.1 acceptlocal()

this test if the arduino pin is a pin for this object a pin of this object is a ulPin value where the value is equal to this.getPin(channel) for a channel=0..15

Definition at line 279 of file ZMCP23017.cpp.

Referenced by analogWrite(), digitalRead(), digitalWrite(), and pinMode().

Here is the caller graph for this function:



4.1.2.2 analogRead()

dummy function for compatibility with arduino API, always return 0

Definition at line 61 of file ZMCP23017.cpp.

4.1.2.3 analogWrite()

define the analog output value of the pin like arduino API ulValue can be 0..4096...

ulPin is a pin from this.getPin(x) where x=0..15 here not PWM are avalable so a value below _writeResolution/2 generate a LOW state else an HIGH state will be apply

Definition at line 221 of file ZMCP23017.cpp.

References acceptlocal().

Here is the call graph for this function:



4.1.2.4 analogWriteResolution()

define the analog Write Resolution of the components like arduino API res can be 1..16

Definition at line 208 of file ZMCP23017.cpp.

Initializes the ZMCP23017 given its HW selected address, see datasheet for Address selection. or use setHard← Address to over write it.

Definition at line 96 of file ZMCP23017.cpp.

uint8_t addr)

References ZMCP23017_ADDRESS, ZMCP23017_ADDRESS_MASK, and ZMCP23017_IODIR.

```
4.1.2.6 begin() [2/3]
```

Initializes the ZMCP23017 given its HW selected address, see datasheet for Address selection.

Definition at line 125 of file ZMCP23017.cpp.

References begin().

Here is the call graph for this function:



```
4.1.2.7 begin() [3/3]
```

Initializes the default ZMCP23017, with 000 for the configurable part of the address

Definition at line 132 of file ZMCP23017.cpp.

Referenced by begin().

Here is the caller graph for this function:



4.1.2.8 check()

```
bool ZMCP23017::check ( )
```

Definition at line 64 of file ZMCP23017.cpp.

4.1.2.9 digitalRead()

return the digital value of the pin like arduino API

ulPin is a pin from this.getPin(channel) where channel=0..15 returns LOW or HIGH, in case of no pin it returns LOW

Definition at line 264 of file ZMCP23017.cpp.

References acceptlocal(), and ZMCP23017_GPIO.

Here is the call graph for this function:



4.1.2.10 digitalWordRead()

```
word ZMCP23017::digitalWordRead ( )
```

this function return a word that is the image to of the bus GPIOB[7..0]:GPIOA[7..0]

Definition at line 290 of file ZMCP23017.cpp.

References ZMCP23017_GPIO.

4.1.2.11 digitalWordWrite()

```
void ZMCP23017::digitalWordWrite ( word w )
```

this function write a word that is applied to the bus GPIOB[7..0]:GPIOA[7..0]

Definition at line 296 of file ZMCP23017.cpp.

References ZMCP23017_GPIO.

4.1.2.12 digitalWrite()

define the output vallue of the pin like arduino API val can be LOW, HIGH ulPin is a pin from this.getPin(x) where x=0..15 if input mode is set, a High active pull up.

Definition at line 178 of file ZMCP23017.cpp.

References acceptlocal(), ZMCP23017_GPIO, and ZMCP23017_GPPU.

Here is the call graph for this function:



4.1.2.13 inputOutputMask()

this function define the direction of the bus GPIOB[7..0]:GPIOA[7..0], one bit for each pin 1 means input 0 means output

Definition at line 309 of file ZMCP23017.cpp.

References ZMCP23017_IODIR.

4.1.2.14 inputPolarityMask()

```
void ZMCP23017::inputPolarityMask ( word\ \textit{mask}\ )
```

Definition at line 301 of file ZMCP23017.cpp.

References ZMCP23017 IPOL.

4.1.2.15 internalPullupMask()

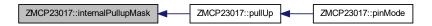
this function define the pull up activation of the bus GPIOB[7..0]:GPIOA[7..0], one bit for each pin 1 means enabled 0 means disabled

Definition at line 317 of file ZMCP23017.cpp.

References ZMCP23017_GPPU.

Referenced by pullUp().

Here is the caller graph for this function:



4.1.2.16 pinMode()

Sets the pin mode to either INPUT or OUTPUT

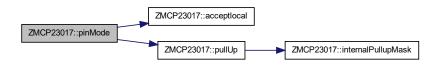
void ZMCP23017::pinMode(uint32_t p, uint8_t d) { if(acceptlocal(p)) { updateRegisterBit(p,(d==INPUT),ZMC← P23017_IODIRA,ZMCP23017_IODIRB); } else if (_next) return _next->pinMode(p,d);

} define the mode of the pin like arduino API mode can be INPUT_PULLUP, INPUT,OUTPUT ulPin is a pin from this.getPin(x) where x=0..15

Definition at line 153 of file ZMCP23017.cpp.

References acceptlocal(), pullUp(), and ZMCP23017_IODIR.

Here is the call graph for this function:



4.1.2.17 pullUp()

define the pull upof the pin d can be 0 for nio pull up and 1 to enable pull up p is a pin from 0..15

Definition at line 240 of file ZMCP23017.cpp.

References internalPullupMask().

Referenced by pinMode().

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.18 setHardAddress()

define the address based of PIN A2, A1,A0 value

Definition at line 70 of file ZMCP23017.cpp.

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4.1.2.19 setWire()

Definition at line 85 of file ZMCP23017.cpp.

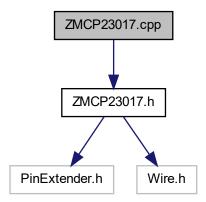
The documentation for this class was generated from the following files:

- ZMCP23017.h
- ZMCP23017.cpp

5 File Documentation

5.1 ZMCP23017.cpp File Reference

```
#include "ZMCP23017.h"
Include dependency graph for ZMCP23017.cpp:
```



Macros

- #define ZMCP23017_ADDRESS 0x20
- #define ZMCP23017_ADDRESS_MASK 0x78
- #define ZMCP23017 IODIRA 0x00
- #define ZMCP23017_IPOLA 0x02
- #define ZMCP23017_GPINTENA 0x04
- #define ZMCP23017_DEFVALA 0x06
- #define ZMCP23017_INTCONA 0x08
- #define ZMCP23017 IOCONA 0x0A
- #define ZMCP23017_GPPUA 0x0C
- #define ZMCP23017_INTFA 0x0E
- #define ZMCP23017_INTCAPA 0x10

- #define ZMCP23017_GPIOA 0x12
- #define ZMCP23017_OLATA 0x14
- #define ZMCP23017_IODIRB 0x01
- #define ZMCP23017 IPOLB 0x03
- #define ZMCP23017_GPINTENB 0x05
- #define ZMCP23017_DEFVALB 0x07
- #define ZMCP23017_INTCONB 0x09
- #define ZMCP23017_IOCONB 0x0B
- #define ZMCP23017_GPPUB 0x0D
- #define ZMCP23017 INTFB 0x0F
- #define ZMCP23017_INTCAPB 0x11
- #define ZMCP23017_GPIOB 0x13
- #define ZMCP23017_OLATB 0x15
- #define ZMCP23017 INT ERR 255
- #define ZMCP23017_IODIR 0x00
- #define ZMCP23017_IPOL 0x2
- #define ZMCP23017 GPPU 0x0C
- #define ZMCP23017_GPIO 0x12

5.1.1 Macro Definition Documentation

5.1.1.1 ZMCP23017_ADDRESS

#define ZMCP23017_ADDRESS 0x20

Definition at line 17 of file ZMCP23017.cpp.

Referenced by ZMCP23017::begin().

5.1.1.2 ZMCP23017_ADDRESS_MASK

#define ZMCP23017_ADDRESS_MASK 0x78

Definition at line 18 of file ZMCP23017.cpp.

Referenced by ZMCP23017::begin().

5.1.1.3 ZMCP23017_DEFVALA

#define ZMCP23017_DEFVALA 0x06

Definition at line 26 of file ZMCP23017.cpp.

5.1.1.4 ZMCP23017_DEFVALB

#define ZMCP23017_DEFVALB 0x07

Definition at line 39 of file ZMCP23017.cpp.

5.1.1.5 ZMCP23017_GPINTENA

#define ZMCP23017_GPINTENA 0×04

Definition at line 25 of file ZMCP23017.cpp.

5.1.1.6 ZMCP23017_GPINTENB

#define ZMCP23017_GPINTENB 0x05

Definition at line 38 of file ZMCP23017.cpp.

5.1.1.7 ZMCP23017_GPIO

#define ZMCP23017_GPIO 0x12

Definition at line 56 of file ZMCP23017.cpp.

 $Referenced\ by\ ZMCP23017:: digital WordRead(),\ ZMCP23017:: digital WordRead(),\ ZMCP23017:: digital WordWrite(),\ and\ ZMCP23017:: digital Write().$

5.1.1.8 ZMCP23017_GPIOA

#define ZMCP23017_GPIOA 0x12

Definition at line 32 of file ZMCP23017.cpp.

5.1.1.9 ZMCP23017_GPIOB

#define ZMCP23017_GPIOB 0x13

Definition at line 45 of file ZMCP23017.cpp.

5.1.1.10 ZMCP23017_GPPU

#define ZMCP23017_GPPU 0x0C

Definition at line 55 of file ZMCP23017.cpp.

Referenced by ZMCP23017::digitalWrite(), and ZMCP23017::internalPullupMask().

5.1.1.11 ZMCP23017_GPPUA

#define ZMCP23017_GPPUA 0x0C

Definition at line 29 of file ZMCP23017.cpp.

5.1.1.12 ZMCP23017_GPPUB

#define ZMCP23017_GPPUB 0x0D

Definition at line 42 of file ZMCP23017.cpp.

5.1.1.13 ZMCP23017_INT_ERR

#define ZMCP23017_INT_ERR 255

Definition at line 48 of file ZMCP23017.cpp.

5.1.1.14 ZMCP23017_INTCAPA

#define ZMCP23017_INTCAPA 0x10

Definition at line 31 of file ZMCP23017.cpp.

5.1.1.15 ZMCP23017_INTCAPB

#define ZMCP23017_INTCAPB 0x11

Definition at line 44 of file ZMCP23017.cpp.

5.1.1.16 ZMCP23017_INTCONA

#define ZMCP23017_INTCONA 0x08

Definition at line 27 of file ZMCP23017.cpp.

5.1.1.17 ZMCP23017_INTCONB

#define ZMCP23017_INTCONB 0x09

Definition at line 40 of file ZMCP23017.cpp.

5.1.1.18 ZMCP23017_INTFA

#define ZMCP23017_INTFA 0x0E

Definition at line 30 of file ZMCP23017.cpp.

5.1.1.19 ZMCP23017_INTFB

#define ZMCP23017_INTFB 0x0F

Definition at line 43 of file ZMCP23017.cpp.

5.1.1.20 ZMCP23017_IOCONA

#define ZMCP23017_IOCONA 0x0A

Definition at line 28 of file ZMCP23017.cpp.

5.1.1.21 ZMCP23017_IOCONB

#define ZMCP23017_IOCONB 0x0B

Definition at line 41 of file ZMCP23017.cpp.

5.1.1.22 ZMCP23017_IODIR

#define ZMCP23017_IODIR 0x00

Definition at line 53 of file ZMCP23017.cpp.

Referenced by ZMCP23017::begin(), ZMCP23017::inputOutputMask(), and ZMCP23017::pinMode().

5.1.1.23 ZMCP23017_IODIRA

#define ZMCP23017_IODIRA 0x00

Definition at line 23 of file ZMCP23017.cpp.

5.1.1.24 ZMCP23017_IODIRB

#define ZMCP23017_IODIRB 0x01

Definition at line 36 of file ZMCP23017.cpp.

5.1.1.25 ZMCP23017_IPOL

#define ZMCP23017_IPOL 0x2

Definition at line 54 of file ZMCP23017.cpp.

Referenced by ZMCP23017::inputPolarityMask().

5.1.1.26 ZMCP23017_IPOLA

#define ZMCP23017_IPOLA 0x02

Definition at line 24 of file ZMCP23017.cpp.

5.1.1.27 ZMCP23017_IPOLB

#define ZMCP23017_IPOLB 0x03

Definition at line 37 of file ZMCP23017.cpp.

5.1.1.28 ZMCP23017_OLATA

#define ZMCP23017_OLATA 0x14

Definition at line 33 of file ZMCP23017.cpp.

5.1.1.29 ZMCP23017_OLATB

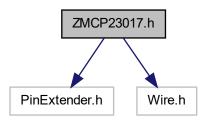
#define ZMCP23017_OLATB 0x15

Definition at line 46 of file ZMCP23017.cpp.

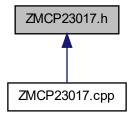
5.2 ZMCP23017.h File Reference

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

Include dependency graph for ZMCP23017.h:



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



Data Structures

• class ZMCP23017

Macros

- #define MCP23017_GPA7 7
- #define MCP23017_GPA6 6
- #define MCP23017_GPA5 5
- #define MCP23017_GPA4 4
- #define MCP23017_GPA3 3
- #define MCP23017_GPA2 2
- #define MCP23017_GPA1 1
- #define MCP23017_GPA0 0
- #define MCP23017_GPB7 15

- #define MCP23017_GPB6 14
- #define MCP23017_GPB5 13
- #define MCP23017_GPB4 12
- #define MCP23017_GPB3 11
- #define MCP23017_GPB2 10
- #define MCP23017_GPB1 9
- #define MCP23017_GPB0 8
- #define NO_CHANNEL 0xfe

5.2.1 Macro Definition Documentation

5.2.1.1 MCP23017_GPA0

#define MCP23017_GPA0 0

Definition at line 39 of file ZMCP23017.h.

5.2.1.2 MCP23017_GPA1

#define MCP23017_GPA1 1

Definition at line 38 of file ZMCP23017.h.

5.2.1.3 MCP23017_GPA2

#define MCP23017_GPA2 2

Definition at line 37 of file ZMCP23017.h.

5.2.1.4 MCP23017_GPA3

#define MCP23017_GPA3 3

Definition at line 36 of file ZMCP23017.h.

5.2.1.5 MCP23017_GPA4

#define MCP23017_GPA4 4

Definition at line 35 of file ZMCP23017.h.

5.2.1.6 MCP23017_GPA5

#define MCP23017_GPA5 5

Definition at line 34 of file ZMCP23017.h.

5.2.1.7 MCP23017_GPA6

#define MCP23017_GPA6 6

Definition at line 33 of file ZMCP23017.h.

5.2.1.8 MCP23017_GPA7

#define MCP23017_GPA7 7

Definition at line 32 of file ZMCP23017.h.

5.2.1.9 MCP23017_GPB0

#define MCP23017_GPB0 8

Definition at line 48 of file ZMCP23017.h.

5.2.1.10 MCP23017_GPB1

#define MCP23017_GPB1 9

Definition at line 47 of file ZMCP23017.h.

5.2.1.11 MCP23017_GPB2

#define MCP23017_GPB2 10

Definition at line 46 of file ZMCP23017.h.

5.2.1.12 MCP23017_GPB3

#define MCP23017_GPB3 11

Definition at line 45 of file ZMCP23017.h.

5.2.1.13 MCP23017_GPB4

#define MCP23017_GPB4 12

Definition at line 44 of file ZMCP23017.h.

5.2.1.14 MCP23017_GPB5

#define MCP23017_GPB5 13

Definition at line 43 of file ZMCP23017.h.

5.2.1.15 MCP23017_GPB6

#define MCP23017_GPB6 14

Definition at line 42 of file ZMCP23017.h.

5.2.1.16 MCP23017_GPB7

#define MCP23017_GPB7 15

Definition at line 41 of file ZMCP23017.h.

5.2.1.17 NO_CHANNEL

#define NO_CHANNEL 0xfe

Definition at line 50 of file ZMCP23017.h.

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