

HALL:

MCAL:

CAN

Description: module to deal with Timer

APIs

CANInit(void)

Syntax: void CANInit(void)

Description: Initialize CAN depending on the configration in CAN config.h

Sync\Async: Synchronous
Reentrancy: Non Reentrant
Parameters (in): None
Parameters (out): None
Return value: void

<u>CANSetCallBack(void (*CallBack)(void))</u>

Syntax: void CANSetCallBack(void (*CallBack)(void)) *Description:* Set the CallBack function to call it in the ISR

Sync Async: Synchronous
Reentrancy: Non Reentrant
Parameters (in): Call Back

Parameters (in): CallBack pointer to the callback function

Parameters (out): None Return value: void



typedefs

APIs

InitPORT(PORT type thePort, Direction type theDir,..)

InitPin(Pin config myPin)

ReadPort(PORT type myPORT myPort)

Syntax: int ReadPort(PORT_type myPort)

Description: Read port value

WritePort(PORT type myPort,int value)

ReadPIN(PORT type thePort,int PinNum)

Syntax: int ReadPIN(PORT type thePort, int PinNum)

Description: Read port value Sync Async: Synchronous Reentrancy: Reentrant

Parameters (in): thePort The port of the pin to be read

PinNum the pin number

Parameters (out): None

Return value: int the value on the pin

WritePIN(PORT type thePort,int PinNum,int value)

Syntax: void WritePIN(PORT type thePort,int PinNum,int value

Description: write pin value Sync Async: Synchronous Reentrancy: Non Reentrant

Parameters (in): the Port The port of the pin to write on

PinNum the pin number

value the value to be writtenParameters (out): None

Parameters (out): None Return value: void

On Board:

Light

Description: module to deal with light Device

APIs

LightInit(Light type myDevice)

Syntax: void LightInit(Light type myDevice)

Description: Initialize Light depending on the configration in the struct myDevice

Sync\Async: Synchronous Reentrancy: Reentrant

Parameters (in): myDevice struct contain the pins that the sensor connected to

Parameters (out): None Return value: void

LightWrite(Light type myDevice, LightValue myVal)

Syntax: void LightWrite(Light type myDevice,LightVlaue myVal)

Description: Write to the device Sync\Async: Synchronous Reentrancy: Reentrant

Parameters (in): myDevice struct contain the pins that the device connected to

nyVal value to write to the device

Parameters (out): None Return value: void

Buzzer

Description: module to deal with Buzzer Device

APIs

BuzzerInit(Buzzer type myDevice)

Syntax: void BuzzerInit(Buzzer type myDevice)

Description: Initialize Buzzer depending on the configration in the struct myDevice

Sync\Async: Synchronous Reentrancy: Reentrant

Parameters (in): myDevice—struct contain the pins that the sensor connected to

Parameters (out): None Return value: void

BuzzerWrite(Buzzer type myDevice, BuzzerValue myVal)

Syntax: void BuzzerWrite(Buzzer type myDevice,BuzzerVlaue myVal)

Description: Write to the device Sync Async: Synchronous

Parameters (in): myDevice struct contain the pins that the device conne

yVal value to write to the device

Parameters (out): None Return value: void