C:/microchip/harmony/v2_05_01/apps/PROJ/Emetteur_DCF/firmware/src/bsp.h

```
/** Descriptive File Name
 @Company
  Company Name
@File Name
  filename.h
 @Summary
 Brief description of the file.
@Description
 Describe the purpose of this file.
#include <xc.h>
#include <stdio.h>
#include <stdlib.h>
#include <stdint.h>
#include <stdbool.h>
//#include "peripheral/ports/plib ports.h"
//#include "peripheral/tmr/plib tmr.h"
#ifndef _BSP_CONFIG_H
#define BSP CONFIG H
/* Section: Included Files
                                           */
/* Oscillator Frequency
Summarv:
 Defines frequency value of crystal/oscillator used on the board
Description:
 Defines frequency value of crystal/oscillator used on the board
#define BSP_OSC_FREQUENCY 8000000 // 8 MHz
// Ajout définition direct des E/S du Kit 32MX795F512L
// ______
     -----*/
/ Touches
```

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```
/*----*/
// Definitions directes
#define S_SW1 PORTDbits.RD10
#define S_SW2 PORTDbits.RD9
#define S_SW3 PORTDbits.RD8
#define S SW4 PORTDbits.RD0
//Definitions pour fonctions PLIB_PORTS
#define S_SW1_PORT PORT_CHANNEL_D
#define S_SW2_PORT PORT_CHANNEL_D
#define S_SW2_PORT PORT_CHANNEL_D
#define S_SW2_BIT PORT_BIT_POS_9
#define S_SW3_PORT PORT_CHANNEL_D
#define S_SW3_BIT PORT_BIT_POS_8
#define S_SW4_MENU_PORT PORT_CHANNEL_D
#define S_SW4_BIT PORT_BIT_POS_0
// Definitions dans le fichier XML (bsp.xml)
// <function name="SW 1" pin="RD10" mode="digital" pullup="true"/>
// <function name="SW_2" pin="RD9" mode="digital" pullup="true"/>
// <function name="SW 3" pin="RD8" mode="digital" pullup="true"/>
// <function name="SW 4" pin="RD0" mode="digital" pullup="true"/>
 /*----*/
 // Ethernet
 /*----*/
// Uniquement pour info
//PORT B
#define ETH_MDC PORTBbits.RB15
//PORT D
#define ETH_MDIO PORTDbits.RD1
#define ETH_POWERDOWN_INT PORTDbits.RD11
//PORT E
#define ETH_RX_D1 PORTEbits.RE0
#define ETH_RX_D0 PORTEbits.RE1
#define ETH_CRS_DV PORTEbits.RE2
#define ETH_CRS_DV
#define ETH_REF_CLK
#define ETH_RX_ER
                           PORTEbits.RE3
                           PORTEbits.RE4
#define ETH_TX_EN PORTEbits.RE5
#define ETH_TX_D0
                           PORTEbits.RE6
#define ETH_TX_D1
                           PORTEbits.RE7
 /*----*/
// LCD
 /*----*/
//On écrit dans le latch pour éviter les problèmes de R/W
#define LCD_RS_W LATBbits.LATB2
```

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```
#define LCD_E_W LATBbits.LATB4
#define LCD_BL_W LATBbits.LATB9
#define LCD_DB4_W LATBbits.LATB5
#define LCD_DB5_W LATBbits.LATB6
#define LCD_DB6_W LATBbits.LATB7
#define LCD_DB7_W LATBbits.LATB8
//On lit directement sur le port, sinon on obtient la valeur
//précédemment écrite dans le latch!!
#define LCD_RS_R PORTBbits.RB2
#define LCD RW R
                          PORTBbits.RB3
#define LCD_E_R PORTBbits.RB4
#define LCD_BL_R PORTBbits.RB9
#define LCD_DB4_R PORTBbits.RB5
#define LCD_DB5_R PORTBbits.RB6
#define LCD_DB6_R PORTBbits.RB7
#define LCD_DB7_R PORTBbits.RB8
#define LCD_RS_T TRISBbits.TRISB2
#define LCD_RW_T TRISBbits.TRISB3
                       TRISBbits.TRISB4
#define LCD_E_T
#define LCD_BL_T TRISBbits.TRISB9
#define LCD_DB4_T TRISBbits.TRISB5
#define LCD_DB5_T TRISBbits.TRISB6
#define LCD DB6 T TRISBbits.TRISB7
#define LCD_DB7_T TRISBbits.TRISB8
// Definitions pour fonctions PLIB PORTS
#define LCD_RS_PORT PORT_CHANNEL_B
#define LCD RS BIT PORTS BIT POS 2
#define LCD_RW_PORT PORT_CHANNEL_B
#define LCD_RW_BIT PORTS_BIT_POS_3
#define LCD E PORT PORT CHANNEL B
#define LCD E BIT PORTS BIT POS 4
#define LCD BL PORT PORT CHANNEL B
#define LCD_BL_BIT PORTS_BIT_POS_9
#define LCD_DB4_PORT PORT_CHANNEL_B
#define LCD_DB4_BIT PORTS_BIT_POS_5
#define LCD_DB5_PORT PORT_CHANNEL_B
#define LCD DB5 BIT PORTS BIT POS 6
#define LCD_DB6_PORT PORT_CHANNEL_B
#define LCD_DB6_BIT PORTS_BIT_POS_7
#define LCD DB7 PORT PORT CHANNEL B
#define LCD_DB7_BIT PORTS_BIT_POS_8
// Definitions dans le fichier XML (bsp.xml)
// <function name="LCD RS" pin="RB2" mode="digital" direction="out"/>
// <function name="LCD_RW" pin="RB3" mode="digital" direction="out"/>
```

```
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// <function name="LCD_E" pin="RB4" mode="digital" direction="out"/>
// <function name="LCD_BL" pin="RB9" mode="digital" direction="out"/ latch="low">
// <function name="LCD_DB4" pin="RB5" mode="digital" direction="out" latch="high"/>
// <function name="LCD DB5" pin="RB6" mode="digital" direction="out" latch="high"/>
// <function name="LCD_DB6" pin="RB7" mode="digital" direction="out" latch="high"/>
// <function name="LCD DB7" pin="RB8" mode="digital" direction="out" latch="high"/>
// Signal DCF
/*----*/
#define P DCF
                   PORTDbits.RD2
#define P DCF W
                   LATDbits.LATD2
#define P_DCF_R
                   PORTDbits.RD2
/*----*/
// Analog Switch
/*----*/
#define CMD SW
                   PORTDbits.RD3
#define CMD_SW_W
                   LATDbits.LATD3
#define CMD SW R
                   PORTDbits.RD3
#ifdef __cplusplus
#endif
#endif /* EXAMPLE FILE NAME H */
/* ******************************
End of File
*/
```