```
/*******************************************************************************
  MPLAB Harmony System Configuration Header

  File Name:
    system_config.h

  Summary:
    Build-time configuration header for the system defined by this MPLAB Harmony
    project.

  Description:
    An MPLAB Project may have multiple configurations.  This file defines the
    build-time options for a single configuration.

  Remarks:
    This configuration header must not define any prototypes or data
    definitions (or include any files that do).  It only provides macro
    definitions for build-time configuration options that are not instantiated
    until used by another MPLAB Harmony module or application.

    Created with MPLAB Harmony Version 2.06
*******************************************************************************/

// DOM-IGNORE-BEGIN
/*******************************************************************************
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*******************************************************************************/
// DOM-IGNORE-END

#ifndef _SYSTEM_CONFIG_H
#define _SYSTEM_CONFIG_H

// *****************************************************************************
// *****************************************************************************
// Section: Included Files
// *****************************************************************************
// *****************************************************************************
/*  This section Includes other configuration headers necessary to completely
    define this configuration.
*/


// DOM-IGNORE-BEGIN
#ifdef __cplusplus  // Provide C++ Compatibility

extern "C" {

#endif
// DOM-IGNORE-END

// *****************************************************************************
// *****************************************************************************
// Section: System Service Configuration
// *****************************************************************************
```

```
74  // *****************************************************************************
75  // *****************************************************************************
76  /* Common System Service Configuration Options
77  */
78  #define SYS_VERSION_STR           "2.06"
79  #define SYS_VERSION               20600
80
81  // *****************************************************************************
82  /* Clock System Service Configuration Options
83  */
84  #define SYS_CLK_FREQ                            40000000ul
85  #define SYS_CLK_BUS_PERIPHERAL_1                40000000ul
86  #define SYS_CLK_UPLL_BEFORE_DIV2_FREQ           192000000ul
87  #define SYS_CLK_CONFIG_PRIMARY_XTAL             8000000ul
88  #define SYS_CLK_CONFIG_SECONDARY_XTAL           0ul
89
90  /*** Ports System Service Configuration ***/
91  #define SYS_PORT_A_ANSEL        0xFFFC
92  #define SYS_PORT_A_TRIS         0xFFFC
93  #define SYS_PORT_A_LAT          0x0000
94  #define SYS_PORT_A_ODC          0x0000
95  #define SYS_PORT_A_CNPU         0x0000
96  #define SYS_PORT_A_CNPD         0x0000
97  #define SYS_PORT_A_CNEN         0x0000
98
99  #define SYS_PORT_B_ANSEL        0x000B
100 #define SYS_PORT_B_TRIS         0xB7FB
101 #define SYS_PORT_B_LAT          0x0000
102 #define SYS_PORT_B_ODC          0x0000
103 #define SYS_PORT_B_CNPU         0x0000
104 #define SYS_PORT_B_CNPD         0x0000
105 #define SYS_PORT_B_CNEN         0x0080
106
107
108 /*** Interrupt System Service Configuration ***/
109 #define SYS_INT                     true
110
111 // *****************************************************************************
112 // *****************************************************************************
113 // Section: Driver Configuration
114 // *****************************************************************************
115 // *****************************************************************************
116 /*** Timer Driver Configuration ***/
117 #define DRV_TMR_INTERRUPT_MODE              true
118
119 /*** Timer Driver 0 Configuration ***/
120 #define DRV_TMR_PERIPHERAL_ID_IDX0          TMR_ID_1
121 #define DRV_TMR_INTERRUPT_SOURCE_IDX0       INT_SOURCE_TIMER_1
122 #define DRV_TMR_INTERRUPT_VECTOR_IDX0       INT_VECTOR_T1
123 #define DRV_TMR_ISR_VECTOR_IDX0             _TIMER_1_VECTOR
124 #define DRV_TMR_INTERRUPT_PRIORITY_IDX0     INT_PRIORITY_LEVEL1
125 #define DRV_TMR_INTERRUPT_SUB_PRIORITY_IDX0 INT_SUBPRIORITY_LEVEL0
126 #define DRV_TMR_CLOCK_SOURCE_IDX0           DRV_TMR_CLKSOURCE_INTERNAL
127 #define DRV_TMR_PRESCALE_IDX0               TMR_PRESCALE_VALUE_256
128 #define DRV_TMR_OPERATION_MODE_IDX0         DRV_TMR_OPERATION_MODE_16_BIT
129 #define DRV_TMR_ASYNC_WRITE_ENABLE_IDX0     false
130 #define DRV_TMR_POWER_STATE_IDX0
131
132 #define DRV_TMR_PERIPHERAL_ID_IDX1          TMR_ID_2
133 #define DRV_TMR_INTERRUPT_SOURCE_IDX1       INT_SOURCE_TIMER_2
134 #define DRV_TMR_INTERRUPT_VECTOR_IDX1       INT_VECTOR_T2
135 #define DRV_TMR_ISR_VECTOR_IDX1             _TIMER_2_VECTOR
136 #define DRV_TMR_INTERRUPT_PRIORITY_IDX1     INT_PRIORITY_LEVEL1
137 #define DRV_TMR_INTERRUPT_SUB_PRIORITY_IDX1 INT_SUBPRIORITY_LEVEL0
138 #define DRV_TMR_CLOCK_SOURCE_IDX1           DRV_TMR_CLKSOURCE_INTERNAL
139 #define DRV_TMR_PRESCALE_IDX1               TMR_PRESCALE_VALUE_256
140 #define DRV_TMR_OPERATION_MODE_IDX1         DRV_TMR_OPERATION_MODE_16_BIT
141
142 #define DRV_TMR_ASYNC_WRITE_ENABLE_IDX1     false
143 #define DRV_TMR_POWER_STATE_IDX1
144
145  // *****************************************************************************
146 /* USART Driver Configuration Options
```

```
147   */
148   #define DRV_USART_INSTANCES_NUMBER                  2
149   #define DRV_USART_CLIENTS_NUMBER                    2
150   #define DRV_USART_INTERRUPT_MODE                    true
151   #define DRV_USART_BYTE_MODEL_SUPPORT                true
152   #define DRV_USART_READ_WRITE_MODEL_SUPPORT          false
153   #define DRV_USART_BUFFER_QUEUE_SUPPORT              false
154
155   // *****************************************************************************
156   // *****************************************************************************
157   // Section: Middleware & Other Library Configuration
158   // *****************************************************************************
159   // *****************************************************************************
160
161
162
163   // *****************************************************************************
164   // *****************************************************************************
165   // Section: Application Configuration
166   // *****************************************************************************
167   // *****************************************************************************
168   /*** Application Defined Pins ***/
169
170   /*** Functions for Led_Sended pin ***/
171   #define Led_SendedToggle() PLIB_PORTS_PinToggle(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_0)
172   #define Led_SendedOn() PLIB_PORTS_PinSet(PORTS_ID_0, PORT_CHANNEL_A, PORTS_BIT_POS_0)
173   #define Led_SendedOff() PLIB_PORTS_PinClear(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_0)
174   #define Led_SendedStateGet() PLIB_PORTS_PinGetLatched(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_0)
175   #define Led_SendedStateSet(Value) PLIB_PORTS_PinWrite(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_0, Value)
176
177   /*** Functions for Led_Ready pin ***/
178   #define Led_ReadyToggle() PLIB_PORTS_PinToggle(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_1)
179   #define Led_ReadyOn() PLIB_PORTS_PinSet(PORTS_ID_0, PORT_CHANNEL_A, PORTS_BIT_POS_1)
180   #define Led_ReadyOff() PLIB_PORTS_PinClear(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_1)
181   #define Led_ReadyStateGet() PLIB_PORTS_PinGetLatched(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_1)
182   #define Led_ReadyStateSet(Value) PLIB_PORTS_PinWrite(PORTS_ID_0, PORT_CHANNEL_A,
      PORTS_BIT_POS_1, Value)
183
184   /*** Functions for Rst pin ***/
185   #define RstToggle() PLIB_PORTS_PinToggle(PORTS_ID_0, PORT_CHANNEL_B, PORTS_BIT_POS_2)
186   #define RstOn() PLIB_PORTS_PinSet(PORTS_ID_0, PORT_CHANNEL_B, PORTS_BIT_POS_2)
187   #define RstOff() PLIB_PORTS_PinClear(PORTS_ID_0, PORT_CHANNEL_B, PORTS_BIT_POS_2)
188   #define RstStateGet() PLIB_PORTS_PinGetLatched(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_2)
189   #define RstStateSet(Value) PLIB_PORTS_PinWrite(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_2, Value)
190
191   /*** Functions for Xbee_CON pin ***/
192   #define Xbee_CONToggle() PLIB_PORTS_PinToggle(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_11)
193   #define Xbee_CONOn() PLIB_PORTS_PinSet(PORTS_ID_0, PORT_CHANNEL_B, PORTS_BIT_POS_11)
194   #define Xbee_CONOff() PLIB_PORTS_PinClear(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_11)
195   #define Xbee_CONStateGet() PLIB_PORTS_PinGetLatched(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_11)
196   #define Xbee_CONStateSet(Value) PLIB_PORTS_PinWrite(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_11, Value)
197
198   /*** Functions for Led_Link_Lost pin ***/
199   #define Led_Link_LostToggle() PLIB_PORTS_PinToggle(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_14)
200   #define Led_Link_LostOn() PLIB_PORTS_PinSet(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_14)
201   #define Led_Link_LostOff() PLIB_PORTS_PinClear(PORTS_ID_0, PORT_CHANNEL_B,
      PORTS_BIT_POS_14)
202   #define Led_Link_LostStateGet() PLIB_PORTS_PinGetLatched(PORTS_ID_0, PORT_CHANNEL_B,
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    PORTS_BIT_POS_14)
203 #define Led_Link_LostStateSet(Value) PLIB_PORTS_PinWrite(PORTS_ID_0, PORT_CHANNEL_B,
    PORTS_BIT_POS_14, Value)
204
205 /*** Functions for Button_Send pin ***/
206 #define Button_SendStateGet() PLIB_PORTS_PinGet(PORTS_ID_0, PORT_CHANNEL_B,
    PORTS_BIT_POS_7)
207
208 /*** Functions for Xbee_LINK pin ***/
209 #define Xbee_LINKStateGet() PLIB_PORTS_PinGet(PORTS_ID_0, PORT_CHANNEL_B,
    PORTS_BIT_POS_12)
210
211
212 /*** Application Instance 0 Configuration ***/
213
214 //DOM-IGNORE-BEGIN
215 #ifdef __cplusplus
216 }
217 #endif
218 //DOM-IGNORE-END
219
220 #endif // _SYSTEM_CONFIG_H
221 /*******************************************************************************
222  End of File
223 */
224
```