

BMS_UI_CAN.h - BMS_UI_CAN.h

```

/*****
*
*          BMS_CAN Header
*
*****/
* FileName:      BMS_CAN.h
* Processor:     PIC18F45K80
* Compiler:      Microchip C18 v3.41
* Company:       KIT - CN - IPE
*
* Author         Date           Comment
* ~~~~~
* Reiling V.     23.04.2012     Release
*****/

```

```

#ifndef BMS_UI_CAN_H          // To avoid duplicate inclusion
#define BMS_UI_CAN_H

```

```

/*****
*
* General purpose typedef's
*
*****/

```

```

typedef union _CAN_CONFIG
{
    struct
    {
        uint8_t    SlaveNo;
        uint8_t    BRP;
        uint8_t    PROPSEG;
        uint8_t    PHSEG1;
        uint8_t    PHSEG2;
        uint8_t    SJW;
        uint8_t    PHSEG2_MODE;
        uint8_t    BUS_SAMPLE_MODE;
        uint8_t    WAKEUP_MODE;
        uint8_t    FILTER_MODE;
    };
} CAN_CONFIG;

```

```

typedef union _CAN_MAILBOX
{
    struct
    {
        uint8_t    BOX_No;
        uint32_t    CAN_Id;
        uint8_t    DLC;
        uint32_t    ACCEPTANCE_FILTER;
        int8_t     dataC[8];
    };
} CAN_MAILBOX;

```

```

/*****
*
*          BMS_CAN Header
*
*****/
* FileName:      BMS_CAN.h
* Processor:     PIC18F45K80
* Compiler:      Microchip C18 v3.41
* Company:       KIT - CN - IPE
*
* Author         Date           Comment
* ~~~~~
* Reiling V.     23.04.2012     Release
*****/

```

```

#ifndef BMS_UI_CAN_H          // To avoid duplicate inclusion
#define BMS_UI_CAN_H

```

```

/*****
*
* General purpose typedef's
*
*****/

```

```

typedef union _CAN_CONFIG
{
    struct
    {
        uint8_t    SlaveNo;
        uint8_t    BRP;
        uint8_t    PROPSEG;
        uint8_t    PHSEG1;
        uint8_t    PHSEG2;
        uint8_t    SJW;
        uint8_t    PHSEG2_MODE;
        uint8_t    BUS_SAMPLE_MODE;
        uint8_t    WAKEUP_MODE;
        uint8_t    FILTER_MODE;
    };
} CAN_CONFIG;

```

```

typedef union _CAN_MAILBOX
{
    struct
    {
        uint8_t    BOX_No;
        uint32_t    CAN_Id;
        uint8_t    DLC;
        uint32_t    ACCEPTANCE_FILTER;
        int8_t     dataC[8];
    };
} CAN_MAILBOX;

```

```

/*****
*
*                               Defines
*
*****/
#define CAN_OK                1
#define CAN_NOK               0
#define CAN_Tx_TimeOut       50

/*****
*
*   external Globals
*
*****/
extern uint16_t    gVoltage;
extern int16_t     gCurrent;
extern uint32_t    gOffset;
extern uint8_t     gCounter;
extern CAN_CONFIG gCAN_CONFIG;

/*****
*
*   Funktionen Prototypen
*
*****/
int8_t CAN_Init          ( CAN_CONFIG *config );
int8_t CAN_Init_Mailbox  ( CAN_MAILBOX *mbox);
int8_t CAN_Write         ( CAN_MAILBOX *mbox, uint8_t *dataC );

int8_t CAN_Write_UI      ( void );
int8_t Load_Mailbox      ( uint8_t SlaveNo );

#endif

```

```

/*****
*
*                               Defines
*
*****/
#define CAN_OK                1
#define CAN_NOK               0
#define CAN_Tx_TimeOut       50

/*****
*
*   external Globals
*
*****/
extern uint16_t    gVoltage;
extern int16_t     gCurrent;

extern uint8_t     gCounter;
extern CAN_CONFIG gCAN_CONFIG;

/*****
*
*   Funktionen Prototypen
*
*****/
int8_t CAN_Init          ( CAN_CONFIG *config );
int8_t CAN_Init_Mailbox  ( CAN_MAILBOX *mbox);
int8_t CAN_Write         ( CAN_MAILBOX *mbox, uint8_t *dataC );

int8_t CAN_Write_UI      ( void );
int8_t Load_Mailbox      ( uint8_t SlaveNo );

#endif

```