

# MAXREFDES73# Code Documentation

## V02.00

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# Chapter 1

## Main Page

### 1.1 Introduction

This is the code documentation for the MAXREFDES73# reference design.

The Files page contains the File List page and the Globals page.

The Globals page contains the Functions, Variables, and Macros sub-pages.





## Chapter 2

# Data Structure Index

### 2.1 Data Structures

Here are the data structures with brief descriptions:

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## Chapter 3

# File Index

### 3.1 File List

Here is a list of all files with brief descriptions:

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## Chapter 4

# Data Structure Documentation

### 4.1 fitMsg\_t Union Reference

#### Data Fields

- wsfMsgHdr\_t [hdr](#)
- dmEvt\_t [dm](#)
- attsCccEvt\_t [ccc](#)

#### 4.1.1 Detailed Description

Application message type

Definition at line 99 of file fit\_main.c.

#### 4.1.2 Field Documentation

##### 4.1.2.1 attsCccEvt\_t ccc

Definition at line 103 of file fit\_main.c.

##### 4.1.2.2 dmEvt\_t dm

Definition at line 102 of file fit\_main.c.

##### 4.1.2.3 wsfMsgHdr\_t hdr

Definition at line 101 of file fit\_main.c.

The documentation for this union was generated from the following file:

- Source/[fit\\_main.c](#)



## Chapter 5

# File Documentation

### 5.1 Source/fit\_main.c File Reference

```
#include "mxc_config.h"
#include <string.h>
#include "wsf_types.h"
#include "bstream.h"
#include "wsf_msg.h"
#include "wsf_trace.h"
#include "hci_api.h"
#include "dm_api.h"
#include "att_api.h"
#include "app_api.h"
#include "app_db.h"
#include "app_ui.h"
#include "app_hw.h"
#include "svc_ch.h"
#include "svc_core.h"
#include "svc_hrs.h"
#include "svc_dis.h"
#include "svc_batt.h"
#include "bas_api.h"
#include "hrps_api.h"
#include "gpio.h"
#include "rtc.h"
```

#### Data Structures

- union [fitMsg\\_t](#)

#### Macros

- #define [LED\\_ON](#) 0
- #define [LED\\_OFF](#) 1
- #define [LED\\_PORT](#) 0

- #define RED\_LED\_PIN 7
- #define GREEN\_LED\_PIN 6
- #define FIT\_MSG\_START 0xA0

## Enumerations

- enum { FIT\_HR\_TIMER\_IND = FIT\_MSG\_START, FIT\_BATT\_TIMER\_IND }
- enum { FIT\_GATT\_SC\_CCC\_IDX, FIT\_HRS\_HRM\_CCC\_IDX, FIT\_BATT\_LVL\_CCC\_IDX, FIT\_NUM\_CCC\_IDX }

## Functions

- void FitHandlerInit (wsfHandlerId\_t handlerId)
- void FitHandler (wsfEventMask\_t event, wsfMsgHdr\_t \*pMsg)
- void FitStart (void)

*Start the application.*

## Variables

- uint8\_t BLEadvertising
- uint8\_t BLEconnected
- wsfHandlerId\_t fitHandlerId

### 5.1.1 Detailed Description

```
Project: MAXREFDES73
Filename: fit_main.c
Description: This module contains the implementation of the BLE profile:
Heart Rate Profile. The MAXREFDES73# GSR device communicates with a
device for Android based on BLE heart rate profile.
```

#### Revision History:

06-02-2015 Rev 02.00 MG Initial release.

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Definition in file [fit\\_main.c](#).

## 5.1.2 Macro Definition Documentation

### 5.1.2.1 **#define FIT\_MSG\_START 0xA0**

WSF message event starting value

Definition at line 86 of file fit\_main.c.

### 5.1.2.2 **#define GREEN\_LED\_PIN 6**

Definition at line 83 of file fit\_main.c.

### 5.1.2.3 **#define LED\_OFF 1**

Definition at line 79 of file fit\_main.c.

### 5.1.2.4 **#define LED\_ON 0**

Definition at line 78 of file fit\_main.c.

### 5.1.2.5 **#define LED\_PORT 0**

Definition at line 81 of file fit\_main.c.

### 5.1.2.6 **#define RED\_LED\_PIN 7**

Definition at line 82 of file fit\_main.c.

## 5.1.3 Enumeration Type Documentation

### 5.1.3.1 **anonymous enum**

WSF message event enumeration

Enumerator:

***FIT\_HR\_TIMER\_IND***

***FIT\_BATT\_TIMER\_IND*** Heart rate measurement timer expired

Battery measurement timer expired

Definition at line 89 of file fit\_main.c.

### 5.1.3.2 anonymous enum

enumeration of client characteristic configuration descriptors

Enumerator:

***FIT\_GATT\_SC\_CCC\_IDX***

***FIT\_HRS\_HRM\_CCC\_IDX*** GATT service, service changed characteristic

***FIT\_BATT\_LVL\_CCC\_IDX*** Heart rate service, heart rate monitor characteristic

***FIT\_NUM\_CCC\_IDX*** Battery service, battery level characteristic

Definition at line 206 of file fit\_main.c.

## 5.1.4 Function Documentation

### 5.1.4.1 void FitHandler ( wsfEventMask\_t event, wsfMsgHdr\_t \* pMsg )

Definition at line 618 of file fit\_main.c.

### 5.1.4.2 void FitHandlerInit ( wsfHandlerId\_t handlerId )

Definition at line 583 of file fit\_main.c.

### 5.1.4.3 FitStart ( void )

Start the application.

Returns

None.

Definition at line 647 of file fit\_main.c.

## 5.1.5 Variable Documentation

### 5.1.5.1 uint8\_t BLEadvertising

Definition at line 160 of file MAXREFDES73.c.

### 5.1.5.2 uint8\_t BLEconnected

Definition at line 159 of file MAXREFDES73.c.

### 5.1.5.3 wsfHandlerId\_t fitHandlerId

WSF handler ID

Definition at line 228 of file fit\_main.c.

## 5.2 Source/MAXREFDES73.c File Reference

```
#include "string.h"
#include <inttypes.h>
#include <math.h>
#include "wsf_types.h"
#include "wsf_os.h"
#include "wsf_buf.h"
#include "wsf_sec.h"
#include "hci_handler.h"
#include "dm_handler.h"
#include "l2c_handler.h"
#include "att_handler.h"
#include "smp_handler.h"
#include "app_api.h"
#include "l2c_api.h"
#include "smp_api.h"
#include "mxc_config.h"
#include "icc.h"
#include "ioman.h"
#include "clkman.h"
#include "gpio.h"
#include "power.h"
#include "systick.h"
#include "fit_api.h"
#include "hci_drv.h"
#include "rtc.h"
#include "spi.h"
#include "tmr.h"
#include "tmon.h"
#include "dac.h"
#include "adc.h"
#include "afe.h"
#include "trim_regs.h"
```

### Macros

- `#define EM9301_ASSERT_RESET 1`
- `#define EM9301_RELEASE_RESET 0`
- `#define EM9301_SLEEP 0`
- `#define EM9301_WAKEUP 1`
- `#define BLE_MS_PER_TIMER_TICK 10 /* milliseconds per WSF timer tick */`
- `#define SYSTICK_10_MS 327`
- `#define LED_ON 0`
- `#define LED_OFF 1`
- `#define LED_PORT 0`
- `#define RED_LED_PIN 7`
- `#define GREEN_LED_PIN 6`
- `#define SPI_PORT 0`
- `#define BLE_SLAVE_SELECT 0`
- `#define FC_POLARITY 1`

- #define FC\_ENABLE 1
- #define SS\_POLARITY 0
- #define ACT\_DELAY 1
- #define INACT\_DELAY 0
- #define SPI0\_PORT 0
- #define SPI0\_SCK 0
- #define SPI0\_SDO 1
- #define SPI0\_SDI 2
- #define SPI0\_CSN 3
- #define BLE\_IRQ\_PORT 0
- #define BLE\_IRQ\_PIN 4
- #define BLE\_RST\_PORT 0
- #define BLE\_RST\_PIN 5
- #define CHARGING\_PORT 2
- #define CHARGING\_PIN 7
- #define NTC\_A 824.9707194577557
- #define NTC\_B 222.45487555218145
- #define NTC\_C 0.09559990904037504
- #define WSF\_BUF\_POOLS 4 /\* Number of WSF buffer pools \*/
- #define TMR0 0
- #define LOOPS 0 /\* Run until Stopped \*/
- #define CAPT\_SAMPLES0 184
- #define CAPT\_CYCLES0 46
- #define CYCLE\_START0 6
- #define R1 10000
- #define RCAL 10000

## Functions

- int main (void)

## Variables

- uint8\_t packet\_0\_buf [20]
- uint8\_t packet\_1\_buf [20]
- uint8\_t packet\_2\_buf [20]
- uint8\_t sweeping
- uint8\_t sweepingDone
- uint8\_t BATLEVEL = 100
- uint8\_t preBATLEVEL = 100
- uint16\_t packetNumber = 0
- uint8\_t firstMeasurement = 1
- uint8\_t BLEconnected = 0
- uint8\_t BLEadvertising = 1
- spi\_slave\_t ss
- uint8\_t mainHciBuf [64]
- double ZMAG = 0
- double ZPHASE = 0

## 5.2.1 Detailed Description

\*\*\*\*\*

```
Project: MAXREFDES73
Filename: MAXREFDES73.c
Description: This module contains the Main application for the
             implementation of the example program for the MAXREFDES73.
```

Revision History:

06-02-2015 Rev 02.00 MG Initial release.

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Definition in file [MAXREFDES73.c](#).

## 5.2.2 Macro Definition Documentation

### 5.2.2.1 #define ACT\_DELAY 1

Definition at line 121 of file MAXREFDES73.c.

### 5.2.2.2 #define BLE\_IRQ\_PIN 4

Definition at line 141 of file MAXREFDES73.c.

### 5.2.2.3 #define BLE\_IRQ\_PORT 0

Definition at line 140 of file MAXREFDES73.c.

### 5.2.2.4 #define BLE\_MS\_PER\_TIMER\_TICK 10 /\* milliseconds per WSF timer tick \*/

Definition at line 104 of file MAXREFDES73.c.

**5.2.2.5 #define BLE\_RST\_PIN 5**

Definition at line 143 of file MAXREFDES73.c.

**5.2.2.6 #define BLE\_RST\_PORT 0**

Definition at line 142 of file MAXREFDES73.c.

**5.2.2.7 #define BLE\_SLAVE\_SELECT 0**

Definition at line 117 of file MAXREFDES73.c.

**5.2.2.8 #define CAPT\_CYCLES0 46**

Definition at line 269 of file MAXREFDES73.c.

**5.2.2.9 #define CAPT\_SAMPLES0 184**

Definition at line 268 of file MAXREFDES73.c.

**5.2.2.10 #define CHARGING\_PIN 7**

Definition at line 146 of file MAXREFDES73.c.

**5.2.2.11 #define CHARGING\_PORT 2**

Definition at line 145 of file MAXREFDES73.c.

**5.2.2.12 #define CYCLE\_START0 6**

Definition at line 270 of file MAXREFDES73.c.

**5.2.2.13 #define EM9301\_ASSERT\_RESET 1**

Definition at line 100 of file MAXREFDES73.c.

**5.2.2.14 #define EM9301\_RELEASE\_RESET 0**

Definition at line 101 of file MAXREFDES73.c.

**5.2.2.15 #define EM9301\_SLEEP 0**

Definition at line 102 of file MAXREFDES73.c.

**5.2.2.16 #define EM9301\_WAKEUP 1**

Definition at line 103 of file MAXREFDES73.c.

**5.2.2.17 #define FC\_ENABLE 1**

Definition at line 119 of file MAXREFDES73.c.

**5.2.2.18 #define FC\_POLARITY 1**

Definition at line 118 of file MAXREFDES73.c.

**5.2.2.19 #define GREEN\_LED\_PIN 6**

Definition at line 113 of file MAXREFDES73.c.

**5.2.2.20 #define INACT\_DELAY 0**

Definition at line 122 of file MAXREFDES73.c.

**5.2.2.21 #define LED\_OFF 1**

Definition at line 109 of file MAXREFDES73.c.

**5.2.2.22 #define LED\_ON 0**

Definition at line 108 of file MAXREFDES73.c.

**5.2.2.23 #define LED\_PORT 0**

Definition at line 111 of file MAXREFDES73.c.

**5.2.2.24 #define LOOPS 0 /\* Run until Stopped \*/**

Definition at line 265 of file MAXREFDES73.c.

**5.2.2.25 #define NTC\_A 824.9707194577557**

Definition at line 149 of file MAXREFDES73.c.

**5.2.2.26 #define NTC\_B 222.45487555218145**

Definition at line 150 of file MAXREFDES73.c.

**5.2.2.27 #define NTC\_C 0.09559990904037504**

Definition at line 151 of file MAXREFDES73.c.

**5.2.2.28 #define R1 10000**

Definition at line 272 of file MAXREFDES73.c.

**5.2.2.29 #define RCAL 10000**

Definition at line 273 of file MAXREFDES73.c.

**5.2.2.30 #define RED\_LED\_PIN 7**

Definition at line 112 of file MAXREFDES73.c.

**5.2.2.31 #define SPI0\_CSN 3**

Definition at line 138 of file MAXREFDES73.c.

**5.2.2.32 #define SPI0\_PORT 0**

Definition at line 134 of file MAXREFDES73.c.

**5.2.2.33 #define SPI0\_SCK 0**

Definition at line 135 of file MAXREFDES73.c.

**5.2.2.34 #define SPI0\_SDI 2**

Definition at line 137 of file MAXREFDES73.c.

**5.2.2.35 #define SPI0\_SDO 1**

Definition at line 136 of file MAXREFDES73.c.

**5.2.2.36 #define SPI\_PORT 0**

Definition at line 116 of file MAXREFDES73.c.

**5.2.2.37 #define SS\_POLARITY 0**

Definition at line 120 of file MAXREFDES73.c.



#### **5.2.2.38 #define SYSTICK\_10\_MS 327**

Definition at line 105 of file MAXREFDES73.c.

#### **5.2.2.39 #define TMR0 0**

Definition at line 262 of file MAXREFDES73.c.

#### **5.2.2.40 #define WSF\_BUF\_POOLS 4 /\* Number of WSF buffer pools \*/**

Definition at line 165 of file MAXREFDES73.c.

### **5.2.3 Function Documentation**

#### **5.2.3.1 int main ( void )**

Definition at line 989 of file MAXREFDES73.c.

### **5.2.4 Variable Documentation**

#### **5.2.4.1 uint8\_t BATLEVEL = 100**

Definition at line 155 of file MAXREFDES73.c.

#### **5.2.4.2 uint8\_t BLEadvertising = 1**

Definition at line 160 of file MAXREFDES73.c.

#### **5.2.4.3 uint8\_t BLEconnected = 0**

Definition at line 159 of file MAXREFDES73.c.

#### **5.2.4.4 uint8\_t firstMeasurement = 1**

Definition at line 158 of file MAXREFDES73.c.

#### **5.2.4.5 uint8\_t mainHciBuf[64]**

Definition at line 245 of file MAXREFDES73.c.

#### **5.2.4.6 uint8\_t packet\_0\_buf[20]**

Definition at line 153 of file MAXREFDES73.c.

**5.2.4.7 uint8\_t packet\_1\_buf[20]**

Definition at line 153 of file MAXREFDES73.c.

**5.2.4.8 uint8\_t packet\_2\_buf[20]**

Definition at line 153 of file MAXREFDES73.c.

**5.2.4.9 uint16\_t packetNumber = 0**

Definition at line 157 of file MAXREFDES73.c.

**5.2.4.10 uint8\_t preBATLEVEL = 100**

Definition at line 156 of file MAXREFDES73.c.

**5.2.4.11 spi\_slave\_t ss**

Definition at line 244 of file MAXREFDES73.c.

**5.2.4.12 uint8\_t sweeping**

Definition at line 154 of file MAXREFDES73.c.

**5.2.4.13 uint8\_t sweepingDone**

Definition at line 154 of file MAXREFDES73.c.

**5.2.4.14 double ZMAG = 0**

Definition at line 275 of file MAXREFDES73.c.

**5.2.4.15 double ZPHASE = 0**

Definition at line 276 of file MAXREFDES73.c.

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