Code documentation

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# Chapter 2

# File Index

## 2.1 File List

Here is a list of all files with brief descriptions:

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# **Chapter 3**

## **Class Documentation**

### 3.1 car Struct Reference

```
#include <simulator.h>
```

#### **Public Attributes**

- int doors
- · int seatbelts
- int lights
- int r
- float tempOut
- float tempIn
- float tempEngine

### 3.1.1 Detailed Description

```
Analog ports * A0 - temp Out * A1 - temp In * A2 - temp Engine *
```

A global car structure \*

Definition at line 34 of file simulator.h.

#### 3.1.2 Member Data Documentation

#### 3.1.2.1 int car::doors

status of doors in car. 1 - open, 0 closed

Definition at line 35 of file simulator.h.

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3.1.2.2 int car::lights status of lights. 1 -turn on, 0 - turn off Definition at line 37 of file simulator.h. 3.1.2.3 int car::r statu of reverse gear Definition at line 38 of file simulator.h. 3.1.2.4 int car::seatbelts status of seatbelts in car. 1 - open, 0 - closed Definition at line 36 of file simulator.h. 3.1.2.5 float car::tempEngine temperature engine Definition at line 41 of file simulator.h. 3.1.2.6 float car::tempIn temperature inside Definition at line 40 of file simulator.h. 3.1.2.7 float car::tempOut temperature outside Definition at line 39 of file simulator.h. The documentation for this struct was generated from the following file:

simulator.h

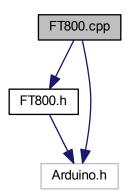
## **Chapter 4**

## **File Documentation**

### 4.1 FT800.cpp File Reference

File containing declarations of all functions required to use with VM800.

#include "FT800.h"
#import <Arduino.h>
Include dependency graph for FT800.cpp:



#### **Functions**

- void delay\_us (int us)
- void delay\_ms (int ms)
- void sendData (int data)
- unsigned char getData ()
- void ft800memWrite8 (unsigned long ftAddress, unsigned char ftData8)
- void ft800memWrite16 (unsigned long ftAddress, unsigned int ftData16)
- void ft800memWrite32 (unsigned long ftAddress, unsigned long ftData32)
- unsigned char ft800memRead8 (unsigned long ftAddress)
- unsigned char ft800memRead16 (unsigned long ftAddress)
- unsigned long ft800memRead32 (unsigned long ftAddress)
- unsigned int incCMDOffset (unsigned int currentOffset, unsigned char commandSize)
- void ft800cmdWrite (unsigned char ftCommand)

#### 4.1.1 Detailed Description

File containing declarations of all functions required to use with VM800.

Author

**Daniel Sienkiewicz** 

Date

28 February 2016

#### 4.1.2 Function Documentation

4.1.2.1 void delay\_ms ( int ms )

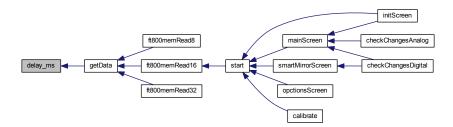
Pauses the program for the amount of time (in milisecond) specified as parameter \*

#### **Parameters**

ms	milisecond to delay *
----	-----------------------

Definition at line 15 of file FT800.cpp.

Here is the caller graph for this function:



#### 4.1.2.2 void delay\_us ( int us )

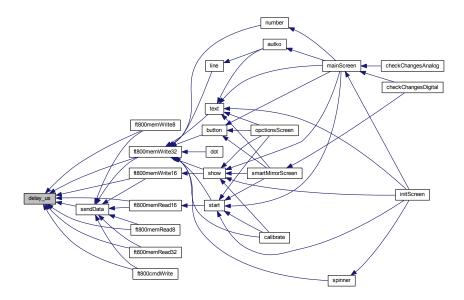
Pauses the program for the amount of time (in microsecond) specified as parameter  $\ast$ 

#### **Parameters**

us	microseconds to delay *
----	-------------------------

Definition at line 11 of file FT800.cpp.

Here is the caller graph for this function:



#### 4.1.2.3 void ft800cmdWrite ( unsigned char ftCommand )

Sends FT800 command \*

#### **Parameters**

ftCommand	command to send to device *

Definition at line 304 of file FT800.cpp.

Here is the call graph for this function:



#### 4.1.2.4 unsigned char ft800memRead16 (unsigned long ftAddress)

Funtion to read 16 bit value from active device with using SPI interface \*

#### **Parameters**

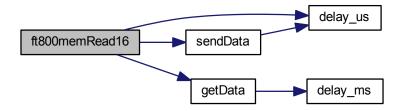
ftAddress	FT800 memory space address (24 bits) *
-----------	----------------------------------------

#### Returns

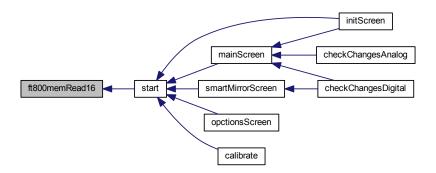
16 bit data obtained from device \*

Definition at line 177 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



### 4.1.2.5 unsigned long ft800memRead32 ( unsigned long ftAddress )

Funtion to read 32 bit value from active device with using SPI interface  $\ast$ 

#### **Parameters**

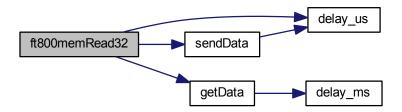
ftAddress	FT800 memory space address (24 bits) *
-----------	----------------------------------------

#### Returns

32 bit data obtained from device \*

Definition at line 226 of file FT800.cpp.

Here is the call graph for this function:



#### 4.1.2.6 unsigned char ft800memRead8 (unsigned long ftAddress)

Funtion to read 8 bit value from active device with using SPI interface \*

#### **Parameters**

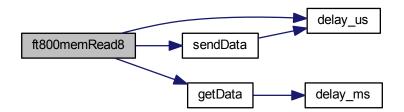
ftAddress	FT800 memory space address (24 bits) *
-----------	----------------------------------------

#### Returns

8 bit data obtained from device \*

Definition at line 143 of file FT800.cpp.

Here is the call graph for this function:



#### 4.1.2.7 void ft800memWrite16 ( unsigned long ftAddress, unsigned int ftData16 )

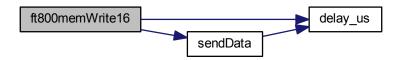
Funtion to send 16 bit value to active device with using SPI interface \*

#### **Parameters**

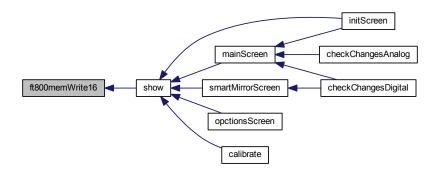
ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 73 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.8 void ft800memWrite32 (unsigned long ftAddress, unsigned long ftData32)

Funtion to send 32 bit value to active device with using SPI interface \*

#### **Parameters**

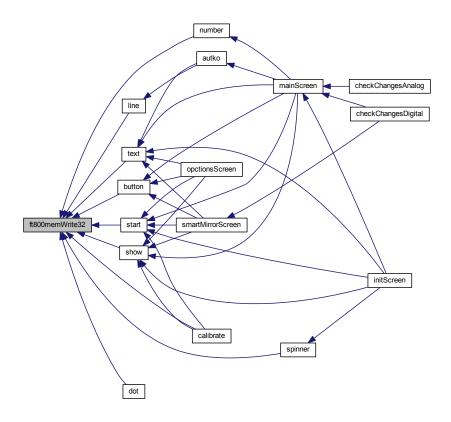
ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 105 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



#### 4.1.2.9 void ft800memWrite8 (unsigned long ftAddress, unsigned char ftData8)

Funtion to send 8 bit value to active device with using SPI interface  $\ast$ 

#### **Parameters**

ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 45 of file FT800.cpp.

Here is the call graph for this function:



#### 4.1.2.10 unsigned char getData ( )

Function getting data from active device with using SPI interface \*

Returns

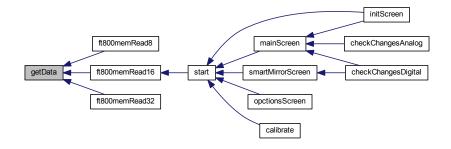
8 bit vcalue with obtained value \*

Definition at line 31 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.1.2.11 unsigned int incCMDOffset ( unsigned int currentOffset, unsigned char commandSize )

Adds commandSize to the currentOffset. Checks for 4K ring-buffer offset roll-over  $\ast$ 

#### **Parameters**

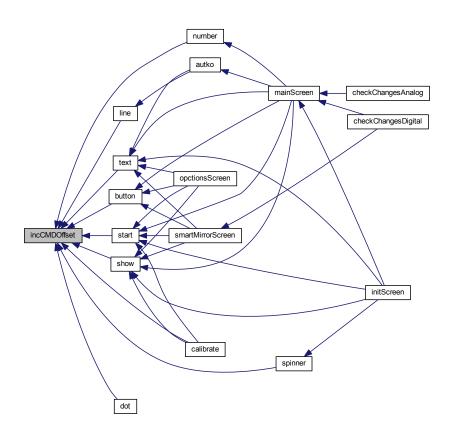
currentOffset	graphics processor command list pointer *
commandSize	number of bytes to increment the offset *

#### Returns

the new ring buffer pointer after adding the command \*

Definition at line 294 of file FT800.cpp.

Here is the caller graph for this function:



#### 4.1.2.12 void sendData (int data)

Function sending data to active device with using SPI interface \*

#### **Parameters**

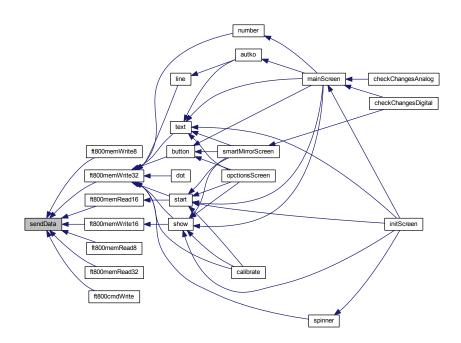
data	8 bit value to send to device *
------	---------------------------------

Definition at line 19 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



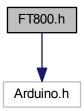
### 4.2 FT800.h File Reference

File containing declarations of all functions required to use with VM800.

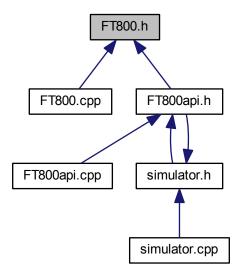
4.2 FT800.h File Reference

#import <Arduino.h>

Include dependency graph for FT800.h:



This graph shows which files directly or indirectly include this file:



#### **Macros**

- #define FT\_DL\_SIZE (8\*1024)
- #define FT\_CMD\_FIFO\_SIZE (4\*1024)
- #define FT\_CMD\_SIZE (4)
- #define FT800\_VERSION "1.9.0"
- #define RAM\_CMD 0x108000UL
- #define RAM\_DL 0x100000UL
- #define RAM\_G 0x00000UL
- #define RAM\_PAL 0x102000UL
- #define RAM\_REG 0x102400UL

- #define REG\_CLOCK 0x102408UL
- #define REG\_CMD\_DL 0x1024ecUL
- #define REG\_CMD\_READ 0x1024e4UL
- #define REG\_CMD\_WRITE 0x1024e8UL
- #define REG CPURESET 0x10241cUL
- #define REG\_CSPREAD 0x102464UL
- #define REG DITHER 0x10245cUL
- #define REG\_DLSWAP 0x102450UL
- #define REG\_FRAMES 0x102404UL
- #define REG FREQUENCY 0x10240cUL
- #define REG GPIO 0x102490UL
- #define REG GPIO DIR 0x10248cUL
- #define REG\_HCYCLE 0x102428UL
- #define REG HOFFSET 0x10242cUL
- #define REG\_HSIZE 0x102430UL
- #define REG HSYNC0 0x102434UL
- #define REG\_HSYNC1 0x102438UL
- #define REG ID 0x102400UL
- #define REG\_INT\_EN 0x10249cUL
- #define REG\_INT\_FLAGS 0x102498UL
- #define REG\_INT\_MASK 0x1024a0UL
- #define REG\_MACRO\_0 0x1024c8UL
- #define REG MACRO 1 0x1024ccUL
- #define REG\_OUTBITS 0x102458UL
- #define REG PCLK 0x10246cUL
- #define REG\_PCLK\_POL 0x102468UL
- #define REG PLAY 0x102488UL
- #define REG\_PLAYBACK\_FORMAT 0x1024b4UL
- #define REG PLAYBACK FREQ 0x1024b0UL
- #define REG\_PLAYBACK\_LENGTH 0x1024a8UL
- #define REG\_PLAYBACK\_LOOP 0x1024b8UL
- #define REG PLAYBACK PLAY 0x1024bcUL
- #define REG\_PLAYBACK\_READPTR 0x1024acUL
- #define REG\_PLAYBACK\_START 0x1024a4UL
- #define REG\_PWM\_DUTY 0x1024c4UL
- #define REG\_PWM\_HZ 0x1024c0UL
- #define REG\_RENDERMODE 0x102410UL
- #define REG ROTATE 0x102454UL
- #define REG\_SNAPSHOT 0x102418UL
- #define REG SNAPY 0x102414UL
- #define REG SOUND 0x102484UL
- #define REG\_SWIZZLE 0x102460UL
- #define REG\_TAG 0x102478UL
- #define REG\_TAG\_X 0x102470UL
- #define REG\_TAG\_Y 0x102474UL
- #define REG TAP CRC 0x102420UL
- #define REG TAP MASK 0x102424UL
- #define REG\_TOUCH\_ADC\_MODE 0x1024f4UL
- #define REG\_TOUCH\_CHARGE 0x1024f8UL
- #define REG\_TOUCH\_DIRECT\_XY 0x102574UL
- #define REG\_TOUCH\_DIRECT\_Z1Z2 0x102578UL
- #define REG\_TOUCH\_MODE 0x1024f0UL
- #define REG TOUCH OVERSAMPLE 0x102500UL
- #define REG TOUCH RAW XY 0x102508UL
- #define REG\_TOUCH\_RZ 0x10250cUL

4.2 FT800.h File Reference 19

- #define REG\_TOUCH\_RZTHRESH 0x102504UL
- #define REG\_TOUCH\_SCREEN\_XY 0x102510UL
- #define REG\_TOUCH\_SETTLE 0x1024fcUL
- #define REG\_TOUCH\_TAG 0x102518UL
- #define REG TOUCH TAG XY 0x102514UL
- #define REG\_TOUCH\_TRANSFORM\_A 0x10251cUL
- #define REG\_TOUCH\_TRANSFORM\_B 0x102520UL
- #define REG\_TOUCH\_TRANSFORM\_C 0x102524UL
- #define REG\_TOUCH\_TRANSFORM\_D 0x102528UL
- #define REG\_TOUCH\_TRANSFORM\_E 0x10252cUL
- #define REG\_TOUCH\_TRANSFORM\_F 0x102530UL
- #define REG\_TRACKER 0x109000UL
- #define REG\_VCYCLE 0x10243cUL
- #define REG VOFFSET 0x102440UL
- #define REG\_VOL\_PB 0x10247cUL
- #define REG VOL SOUND 0x102480UL
- #define REG VSIZE 0x102444UL
- #define REG VSYNC0 0x102448UL
- #define REG\_VSYNC1 0x10244cUL
- #define CMDBUF\_SIZE 4096UL
- #define CMD\_APPEND 0xfffff1eUL
- #define CMD BGCOLOR 0xffffff09UL
- #define CMD BUTTON 0xffffff0dUL
- #define CMD CALIBRATE 0xffffff15UL
- #define CMD CLOCK 0xffffff14UL
- #define CMD\_COLDSTART 0xffffff32UL
- #define CMD DIAL 0xffffff2dUL
- #define CMD DLSTART 0xffffff00UL
- #define CMD FGCOLOR 0xffffff0aUL
- #define CMD\_GAUGE 0xffffff13UL
- #define CMD GETMATRIX 0xffffff33UL
- #define CMD GETPTR 0xffffff23UL
- #define CMD\_GRADCOLOR 0xffffff34UL
- #define CMD GRADIENT 0xffffff0bUL
- #define CMD INFLATE 0xffffff22UL
- #define CMD INTERRUPT 0xffffff02UL
- #define CMD KEYS 0xffffff0eUL
- #define CMD LOADIDENTITY 0xffffff26UL
- #define CMD LOADIMAGE 0xffffff24UL
- #define CMD LOGO 0xffffff31UL
- #define CMD MEMCPY 0xfffff1dUL
- #define CMD MEMCRC 0xffffff18UL
- #define CMD MEMSET 0xffffff1bUL
- #define CMD\_MEMWRITE 0xffffff1aUL
- #define CMD MEMZERO 0xfffff1cUL
- #define CMD NUMBER 0xffffff2eUL
- #define CMD PROGRESS 0xffffff0fUL
- #define CMD REGREAD 0xffffff19UL
- #define CMD ROTATE 0xffffff29UL #define CMD\_SCALE 0xffffff28UL
- #define CMD SCREENSAVER 0xffffff2fUL
- #define CMD SCROLLBAR 0xffffff11UL
- #define CMD SETFONT 0xffffff2bUL
- #define CMD SETMATRIX 0xffffff2aUL
- #define CMD\_SKETCH 0xffffff30UL

- #define CMD SLIDER 0xfffff10UL
- #define CMD SNAPSHOT 0xffffff1fUL
- #define CMD\_SPINNER 0xffffff16UL
- #define CMD STOP 0xffffff17UL
- #define CMD SWAP 0xffffff01UL
- #define CMD\_TEXT 0xffffff0cUL
- #define CMD TOGGLE 0xffffff12UL
- #define CMD\_TRACK 0xffffff2cUL
- #define CMD\_TRANSLATE 0xffffff27UL
- #define DL\_ALPHA\_FUNC 0x09000000UL
- #define DL\_BITMAP\_HANDLE 0x05000000UL
- #define DL BITMAP LAYOUT 0x07000000UL
- #define DL\_BITMAP\_SIZE 0x08000000UL
- #define DL BITMAP SOURCE 0x01000000UL
- #define DL\_BITMAP\_TFORM\_A 0x15000000UL
- #define DL BITMAP TFORM B 0x16000000UL
- #define DL\_BITMAP\_TFORM\_C 0x17000000UL
- #define DL\_BITMAP\_TFORM\_D 0x18000000UL
- #define DL\_BITMAP\_TFORM\_E 0x19000000UL
- #define DL\_BITMAP\_TFORM\_F 0x1A000000UL
- #define DL\_BLEND\_FUNC 0x0B000000UL
- #define DL BEGIN 0x1F000000UL
- #define DL CALL 0x1D000000UL
- #define DL\_CLEAR 0x26000000UL
- #define DL CELL 0x06000000UL
- #define DL\_CLEAR\_RGB 0x02000000UL
- #define DL\_CLEAR\_STENCIL 0x11000000UL
- #define DL\_CLEAR\_TAG 0x12000000UL
- #define DL\_COLOR\_A 0x0F000000UL
- #define DL\_COLOR\_MASK 0x20000000UL
- #define DL COLOR RGB 0x04000000UL
- #define DL DISPLAY 0x00000000UL
- #define DL\_END 0x21000000UL
- #define DL\_JUMP 0x1E000000UL
- #define DL\_LINE\_WIDTH 0x0E000000UL
- #define DL\_MACRO 0x25000000UL
- #define DL\_POINT\_SIZE 0x0D000000UL
- #define DL RESTORE CONTEXT 0x23000000UL
- #define DL RETURN 0x24000000UL
- #define DL SAVE CONTEXT 0x22000000UL
- #define DL SCISSOR SIZE 0x1C000000UL
- #define DL\_SCISSOR\_XY 0x1B000000UL
- #define DL\_STENCIL\_FUNC 0x0A000000UL
- #define DL\_STENCIL\_MASK 0x13000000UL
- #define DL\_STENCIL\_OP 0x0C000000UL
- #define DL TAG 0x03000000UL
- #define DL TAG MASK 0x14000000UL
- #define DL VERTEX2F 0x40000000UL
- #define DL VERTEX2II 0x02000000UL
- #define CLR\_COL 0x4
- #define CLR STN 0x2
- #define CLR\_TAG 0x1
- #define DECR 4UL
- #define DECR WRAP 7UL
- #define DLSWAP\_DONE 0UL

- #define DLSWAP\_FRAME 2UL
- #define DLSWAP\_LINE 1UL
- #define DST\_ALPHA 3UL
- #define EDGE\_STRIP\_A 7UL
- #define EDGE STRIP B 8UL
- #define EDGE\_STRIP\_L 6UL
- #define EDGE STRIP R 5UL
- #define EQUAL 5UL
- #define GEQUAL 4UL
- #define GREATER 3UL
- #define INCR 3UL
- #define INCR WRAP 6UL
- #define INT\_CMDEMPTY 32UL
- #define INT CMDFLAG 64UL
- #define INT\_CONVCOMPLETE 128UL
- #define INT PLAYBACK 16UL
- #define INT SOUND 8UL
- #define INT\_SWAP 1UL
- #define INT\_TAG 4UL
- #define INT\_TOUCH 2UL
- #define INVERT 5UL
- #define KEEP 1UL
- #define L1 1UL
- #define L4 2UL
- #define L8 3UL#define LEQUAL 2UL
- #define LESS 1UL
- #define LINEAR SAMPLES OUL
- #define LINES 3UL
- #define LINE\_STRIP 4UL
- #define NEAREST 0UL
- #define NEVER 0UL
- #define NOTEQUAL 6UL
- #define ONE 1UL
- #define ONE\_MINUS\_DST\_ALPHA 5UL
- #define ONE\_MINUS\_SRC\_ALPHA 4UL
- #define OPT\_CENTER 1536UL
- #define OPT\_CENTERX 512UL
- #define OPT\_CENTERY 1024UL
- #define OPT FLAT 256UL
- #define OPT MONO 1UL
- #define OPT\_NOBACK 4096UL
- #define OPT\_NODL 2UL
- #define OPT\_NOHANDS 49152UL
- #define OPT\_NOHM 16384UL
- #define OPT NOPOINTER 16384UL
- #define OPT\_NOSECS 32768UL
- #define OPT\_NOTICKS 8192UL
- #define OPT\_RIGHTX 2048UL
- #define OPT\_SIGNED 256UL
- #define PALETTED 8UL
- #define PLAYCOLOR 0x00a0a080
- #define FTPOINTS 2UL
- #define RECTS 9UL
- #define REPEAT 1UL

- #define REPLACE 2UL
- #define RGB332 4UL
- #define RGB565 7UL
- #define SRC ALPHA 2UL
- #define TEXT8X8 9UL
- #define TEXTVGA 10UL
- #define TOUCHMODE CONTINUOUS 3UL
- #define TOUCHMODE FRAME 2UL
- #define TOUCHMODE OFF 0UL
- #define TOUCHMODE ONESHOT 1UL
- #define ULAW\_SAMPLES 1UL
- #define ZERO 0UL
- #define RGB(r, g, b) ((((r) << 16) | (g) << 8) | (b))
- #define SQ(v) ((v) \* (v))
- #define MIN(x, y) ((x) > (y) ? (y) : (x))
- #define MAX(x, y) ((x) > (y) ? (x) : (y))
- #define NOTE(n, sharp) (((n) 'C') + ((sharp) \* 128))
- #define F16(s) (((s) \* 65536))
- #define INVALID\_TOUCH\_XY 0x8000
- #define ABS(x) ((x) > (0) ? (x) : (-x))
- #define LCD QVGA
- #define xSDI 8
- #define xSDO 9
- #define xclock 10
- #define xPD 11
- #define xCS 12
- #define FT800 ACTIVE 0x00
- #define FT800 STANDBY 0x41
- #define FT800\_SLEEP 0x42
- #define FT800\_PWRDOWN 0x50
- #define FT800 CLKEXT 0x44
- #define FT800\_CLK48M 0x62
- #define FT800\_CLK36M 0x61
- #define FT800\_CORERST 0x68
- #define FT800 GPUACTIVE 0x40
- #define MEM\_WRITE 0x80
- #define MEM\_READ 0x00
- #define RED 0xFF0000
- #define GREEN 0x00FF00
- #define BLUE 0x0000FF
- #define WHITE 0xFFFFFF
- #define BLACK 0x000000

### **Functions**

- void delay\_us (int us)
- void delay ms (int ms)
- void sendData (int data)
- unsigned char getData ()
- void ft800memWrite8 (unsigned long ftAddress, unsigned char ftData8)
- void ft800memWrite16 (unsigned long ftAddress, unsigned int ftData16)
- void ft800memWrite32 (unsigned long ftAddress, unsigned long ftData32)
- unsigned char ft800memRead8 (unsigned long ftAddress)
- unsigned char ft800memRead16 (unsigned long ftAddress)
- unsigned long ft800memRead32 (unsigned long ftAddress)
- unsigned int incCMDOffset (unsigned int currentOffset, unsigned char commandSize)
- void ft800cmdWrite (unsigned char ftCommand)

## 4.2.1 Detailed Description

File containing declarations of all functions required to use with VM800.

**Author** 

**Daniel Sienkiewicz** 

Date

28 February 2016

### 4.2.2 Macro Definition Documentation

4.2.2.1 #define ABS(x) ((x) > (0) ? (x) : (-x))

Definition at line 275 of file FT800.h.

4.2.2.2 #define BLACK 0x000000

Black colour

Definition at line 322 of file FT800.h.

4.2.2.3 #define BLUE 0x0000FF

Blue colour

Definition at line 320 of file FT800.h.

4.2.2.4 #define CLR\_COL 0x4

Definition at line 193 of file FT800.h.

4.2.2.5 #define CLR\_STN 0x2

Definition at line 194 of file FT800.h.

4.2.2.6 #define CLR\_TAG 0x1

Definition at line 195 of file FT800.h.

4.2.2.7 #define CMD\_APPEND 0xffffff1eUL

Definition at line 105 of file FT800.h.

4.2.2.8 #define CMD\_BGCOLOR 0xffffff09UL Definition at line 106 of file FT800.h. 4.2.2.9 #define CMD\_BUTTON 0xffffff0dUL Definition at line 107 of file FT800.h. 4.2.2.10 #define CMD\_CALIBRATE 0xffffff15UL Definition at line 108 of file FT800.h. 4.2.2.11 #define CMD\_CLOCK 0xffffff14UL Definition at line 109 of file FT800.h. 4.2.2.12 #define CMD\_COLDSTART 0xffffff32UL Definition at line 110 of file FT800.h. 4.2.2.13 #define CMD\_DIAL 0xffffff2dUL Definition at line 111 of file FT800.h. 4.2.2.14 #define CMD\_DLSTART 0xffffff00UL Definition at line 112 of file FT800.h. 4.2.2.15 #define CMD FGCOLOR 0xffffff0aUL Definition at line 113 of file FT800.h. 4.2.2.16 #define CMD\_GAUGE 0xffffff13UL Definition at line 114 of file FT800.h. 4.2.2.17 #define CMD\_GETMATRIX 0xffffff33UL

Definition at line 115 of file FT800.h.

4.2.2.18 #define CMD\_GETPTR 0xffffff23UL Definition at line 116 of file FT800.h. 4.2.2.19 #define CMD\_GRADCOLOR 0xffffff34UL Definition at line 117 of file FT800.h. 4.2.2.20 #define CMD\_GRADIENT 0xffffff0bUL Definition at line 118 of file FT800.h. 4.2.2.21 #define CMD\_INFLATE 0xffffff22UL Definition at line 119 of file FT800.h. 4.2.2.22 #define CMD\_INTERRUPT 0xffffff02UL Definition at line 120 of file FT800.h. 4.2.2.23 #define CMD\_KEYS 0xffffff0eUL Definition at line 121 of file FT800.h. 4.2.2.24 #define CMD\_LOADIDENTITY 0xffffff26UL Definition at line 122 of file FT800.h. 4.2.2.25 #define CMD\_LOADIMAGE 0xffffff24UL Definition at line 123 of file FT800.h. 4.2.2.26 #define CMD\_LOGO 0xffffff31UL Definition at line 124 of file FT800.h. 4.2.2.27 #define CMD\_MEMCPY 0xfffff1dUL Definition at line 125 of file FT800.h.

4.2.2.28 #define CMD\_MEMCRC 0xffffff18UL Definition at line 126 of file FT800.h. 4.2.2.29 #define CMD\_MEMSET 0xffffff1bUL Definition at line 127 of file FT800.h. 4.2.2.30 #define CMD\_MEMWRITE 0xffffff1aUL Definition at line 128 of file FT800.h. 4.2.2.31 #define CMD\_MEMZERO 0xffffff1cUL Definition at line 129 of file FT800.h. 4.2.2.32 #define CMD\_NUMBER 0xffffff2eUL Definition at line 130 of file FT800.h. 4.2.2.33 #define CMD\_PROGRESS 0xffffff0fUL Definition at line 131 of file FT800.h. 4.2.2.34 #define CMD\_REGREAD 0xffffff19UL Definition at line 132 of file FT800.h. 4.2.2.35 #define CMD ROTATE 0xffffff29UL Definition at line 133 of file FT800.h. 4.2.2.36 #define CMD\_SCALE 0xffffff28UL Definition at line 134 of file FT800.h. 4.2.2.37 #define CMD\_SCREENSAVER 0xffffff2fUL

Definition at line 135 of file FT800.h.

4.2.2.38 #define CMD\_SCROLLBAR 0xffffff11UL Definition at line 136 of file FT800.h. 4.2.2.39 #define CMD\_SETFONT 0xffffff2bUL Definition at line 137 of file FT800.h. 4.2.2.40 #define CMD\_SETMATRIX 0xffffff2aUL Definition at line 138 of file FT800.h. 4.2.2.41 #define CMD\_SKETCH 0xffffff30UL Definition at line 139 of file FT800.h. 4.2.2.42 #define CMD\_SLIDER 0xffffff10UL Definition at line 140 of file FT800.h. 4.2.2.43 #define CMD\_SNAPSHOT 0xffffff1fUL Definition at line 141 of file FT800.h. 4.2.2.44 #define CMD\_SPINNER 0xffffff16UL Definition at line 142 of file FT800.h. 4.2.2.45 #define CMD\_STOP 0xffffff17UL Definition at line 143 of file FT800.h. 4.2.2.46 #define CMD\_SWAP 0xffffff01UL Definition at line 144 of file FT800.h. 4.2.2.47 #define CMD\_TEXT 0xffffff0cUL Definition at line 145 of file FT800.h.

4.2.2.48 #define CMD\_TOGGLE 0xffffff12UL Definition at line 146 of file FT800.h. 4.2.2.49 #define CMD\_TRACK 0xffffff2cUL Definition at line 147 of file FT800.h. 4.2.2.50 #define CMD\_TRANSLATE 0xffffff27UL Definition at line 148 of file FT800.h. 4.2.2.51 #define CMDBUF\_SIZE 4096UL Definition at line 104 of file FT800.h. 4.2.2.52 #define DECR 4UL Definition at line 196 of file FT800.h. 4.2.2.53 #define DECR\_WRAP 7UL Definition at line 197 of file FT800.h. 4.2.2.54 #define DL\_ALPHA\_FUNC 0x09000000UL Definition at line 151 of file FT800.h. 4.2.2.55 #define DL\_BEGIN 0x1F000000UL Definition at line 163 of file FT800.h. 4.2.2.56 #define DL\_BITMAP\_HANDLE 0x05000000UL Definition at line 152 of file FT800.h. 4.2.2.57 #define DL\_BITMAP\_LAYOUT 0x07000000UL

Definition at line 153 of file FT800.h.

4.2.2.58 #define DL\_BITMAP\_SIZE 0x08000000UL Definition at line 154 of file FT800.h. 4.2.2.59 #define DL\_BITMAP\_SOURCE 0x01000000UL Definition at line 155 of file FT800.h. 4.2.2.60 #define DL\_BITMAP\_TFORM\_A 0x15000000UL Definition at line 156 of file FT800.h. 4.2.2.61 #define DL\_BITMAP\_TFORM\_B 0x16000000UL Definition at line 157 of file FT800.h. 4.2.2.62 #define DL\_BITMAP\_TFORM\_C 0x17000000UL Definition at line 158 of file FT800.h. 4.2.2.63 #define DL\_BITMAP\_TFORM\_D 0x18000000UL Definition at line 159 of file FT800.h. 4.2.2.64 #define DL\_BITMAP\_TFORM\_E 0x19000000UL Definition at line 160 of file FT800.h. 4.2.2.65 #define DL\_BITMAP\_TFORM\_F 0x1A000000UL Definition at line 161 of file FT800.h. 4.2.2.66 #define DL\_BLEND\_FUNC 0x0B000000UL Definition at line 162 of file FT800.h. 4.2.2.67 #define DL\_CALL 0x1D000000UL

Definition at line 164 of file FT800.h.

4.2.2.68 #define DL\_CELL 0x06000000UL Definition at line 166 of file FT800.h. 4.2.2.69 #define DL\_CLEAR 0x26000000UL Definition at line 165 of file FT800.h. 4.2.2.70 #define DL\_CLEAR\_RGB 0x02000000UL Definition at line 167 of file FT800.h. 4.2.2.71 #define DL\_CLEAR\_STENCIL 0x11000000UL Definition at line 168 of file FT800.h. 4.2.2.72 #define DL\_CLEAR\_TAG 0x12000000UL Definition at line 169 of file FT800.h. 4.2.2.73 #define DL\_COLOR\_A 0x0F000000UL Definition at line 170 of file FT800.h. 4.2.2.74 #define DL\_COLOR\_MASK 0x20000000UL Definition at line 171 of file FT800.h. 4.2.2.75 #define DL\_COLOR\_RGB 0x04000000UL Definition at line 172 of file FT800.h. 4.2.2.76 #define DL\_DISPLAY 0x00000000UL Definition at line 173 of file FT800.h.

4.2.2.77 #define DL\_END 0x21000000UL

Definition at line 174 of file FT800.h.

4.2.2.78 #define DL\_JUMP 0x1E000000UL Definition at line 175 of file FT800.h. 4.2.2.79 #define DL\_LINE\_WIDTH 0x0E000000UL Definition at line 176 of file FT800.h. 4.2.2.80 #define DL\_MACRO 0x25000000UL Definition at line 177 of file FT800.h. 4.2.2.81 #define DL\_POINT\_SIZE 0x0D000000UL Definition at line 178 of file FT800.h. 4.2.2.82 #define DL\_RESTORE\_CONTEXT 0x23000000UL Definition at line 179 of file FT800.h. 4.2.2.83 #define DL\_RETURN 0x24000000UL Definition at line 180 of file FT800.h. 4.2.2.84 #define DL\_SAVE\_CONTEXT 0x22000000UL Definition at line 181 of file FT800.h. 4.2.2.85 #define DL\_SCISSOR\_SIZE 0x1C000000UL Definition at line 182 of file FT800.h. 4.2.2.86 #define DL\_SCISSOR\_XY 0x1B000000UL Definition at line 183 of file FT800.h. 4.2.2.87 #define DL\_STENCIL\_FUNC 0x0A000000UL

Definition at line 184 of file FT800.h.

4.2.2.88 #define DL\_STENCIL\_MASK 0x13000000UL Definition at line 185 of file FT800.h. 4.2.2.89 #define DL\_STENCIL\_OP 0x0C000000UL Definition at line 186 of file FT800.h. 4.2.2.90 #define DL\_TAG 0x03000000UL Definition at line 187 of file FT800.h. 4.2.2.91 #define DL\_TAG\_MASK 0x14000000UL Definition at line 188 of file FT800.h. 4.2.2.92 #define DL\_VERTEX2F 0x4000000UL Definition at line 189 of file FT800.h. 4.2.2.93 #define DL\_VERTEX2II 0x02000000UL Definition at line 190 of file FT800.h. 4.2.2.94 #define DLSWAP\_DONE 0UL Definition at line 198 of file FT800.h. 4.2.2.95 #define DLSWAP\_FRAME 2UL Definition at line 199 of file FT800.h. 4.2.2.96 #define DLSWAP\_LINE 1UL Definition at line 200 of file FT800.h. 4.2.2.97 #define DST\_ALPHA 3UL

Definition at line 201 of file FT800.h.

4.2.2.98 #define EDGE\_STRIP\_A 7UL

Definition at line 202 of file FT800.h.

4.2.2.99 #define EDGE\_STRIP\_B 8UL

Definition at line 203 of file FT800.h.

4.2.2.100 #define EDGE\_STRIP\_L 6UL

Definition at line 204 of file FT800.h.

4.2.2.101 #define EDGE\_STRIP\_R 5UL

Definition at line 205 of file FT800.h.

4.2.2.102 #define EQUAL 5UL

Definition at line 206 of file FT800.h.

4.2.2.103 #define F16( s ) (((s) \* 65536))

Definition at line 273 of file FT800.h.

4.2.2.104 #define FT800\_ACTIVE 0x00

Initializes FT800

Definition at line 303 of file FT800.h.

4.2.2.105 #define FT800\_CLK36M 0x61

Select 36MHz PLL

Definition at line 309 of file FT800.h.

4.2.2.106 #define FT800\_CLK48M 0x62

Select 48MHz PLL

Definition at line 308 of file FT800.h.

4.2.2.107 #define FT800\_CLKEXT 0x44

Select external clock source

Definition at line 307 of file FT800.h.

4.2.2.108 #define FT800\_CORERST 0x68

Reset core - all registers default

Definition at line 310 of file FT800.h.

4.2.2.109 #define FT800\_GPUACTIVE 0x40

Definition at line 311 of file FT800.h.

4.2.2.110 #define FT800\_PWRDOWN 0x50

Place FT800 in Power Down (core off)

Definition at line 306 of file FT800.h.

4.2.2.111 #define FT800\_SLEEP 0x42

Place FT800 in Sleep (clk off)

Definition at line 305 of file FT800.h.

4.2.2.112 #define FT800\_STANDBY 0x41

Place FT800 in Standby (clk running)

Definition at line 304 of file FT800.h.

4.2.2.113 #define FT800\_VERSION "1.9.0"

Definition at line 16 of file FT800.h.

4.2.2.114 #define FT\_CMD\_FIFO\_SIZE (4\*1024)

4KB coprocessor Fifo size

Definition at line 13 of file FT800.h.

4.2.2.115 #define FT\_CMD\_SIZE (4) 4 byte per coprocessor command of EVE Definition at line 14 of file FT800.h. 4.2.2.116 #define FT\_DL\_SIZE (8\*1024) 8KB Display List buffer size Definition at line 12 of file FT800.h. 4.2.2.117 #define FTPOINTS 2UL "POINTS" is a reserved word Definition at line 251 of file FT800.h. 4.2.2.118 #define GEQUAL 4UL Definition at line 207 of file FT800.h. 4.2.2.119 #define GREATER 3UL Definition at line 208 of file FT800.h. 4.2.2.120 #define GREEN 0x00FF00 Green colour Definition at line 319 of file FT800.h. 4.2.2.121 #define INCR 3UL Definition at line 209 of file FT800.h. 4.2.2.122 #define INCR\_WRAP 6UL Definition at line 210 of file FT800.h. 4.2.2.123 #define INT\_CMDEMPTY 32UL

Definition at line 211 of file FT800.h.

4.2.2.124 #define INT\_CMDFLAG 64UL Definition at line 212 of file FT800.h. 4.2.2.125 #define INT\_CONVCOMPLETE 128UL Definition at line 213 of file FT800.h. 4.2.2.126 #define INT\_PLAYBACK 16UL Definition at line 214 of file FT800.h. 4.2.2.127 #define INT\_SOUND 8UL Definition at line 215 of file FT800.h. 4.2.2.128 #define INT\_SWAP 1UL Definition at line 216 of file FT800.h. 4.2.2.129 #define INT\_TAG 4UL Definition at line 217 of file FT800.h. 4.2.2.130 #define INT\_TOUCH 2UL Definition at line 218 of file FT800.h. 4.2.2.131 #define INVALID\_TOUCH\_XY 0x8000 Definition at line 274 of file FT800.h. 4.2.2.132 #define INVERT 5UL Definition at line 219 of file FT800.h. 4.2.2.133 #define KEEP 1UL

Definition at line 220 of file FT800.h.

4.2.2.134 #define L1 1UL

Definition at line 221 of file FT800.h.

4.2.2.135 #define L4 2UL

Definition at line 222 of file FT800.h.

4.2.2.136 #define L8 3UL

Definition at line 223 of file FT800.h.

4.2.2.137 #define LCD\_QVGA

QVGA = 320 x 240 (VM800B/C 3.5")

Definition at line 280 of file FT800.h.

4.2.2.138 #define LEQUAL 2UL

Definition at line 224 of file FT800.h.

4.2.2.139 #define LESS 1UL

Definition at line 225 of file FT800.h.

4.2.2.140 #define LINE\_STRIP 4UL

Definition at line 228 of file FT800.h.

4.2.2.141 #define LINEAR\_SAMPLES OUL

Definition at line 226 of file FT800.h.

4.2.2.142 #define LINES 3UL

Definition at line 227 of file FT800.h.

4.2.2.143 #define MAX(x, y) ((x) > (y)? (x): (y))

Definition at line 271 of file FT800.h.

4.2.2.144 #define MEM\_READ 0x00 FT800 Host Memory Read Definition at line 315 of file FT800.h. 4.2.2.145 #define MEM\_WRITE 0x80 FT800 Host Memory Write Definition at line 314 of file FT800.h. 4.2.2.146 #define MIN( x, y) ((x) > (y) ? (y) : (x)) Definition at line 270 of file FT800.h. 4.2.2.147 #define NEAREST OUL Definition at line 229 of file FT800.h. 4.2.2.148 #define NEVER 0UL Definition at line 230 of file FT800.h. 4.2.2.149 #define NOTE( n, sharp ) (((n) - 'C') + ((sharp) \* 128)) Definition at line 272 of file FT800.h. 4.2.2.150 #define NOTEQUAL 6UL Definition at line 231 of file FT800.h. 4.2.2.151 #define ONE 1UL Definition at line 232 of file FT800.h. 4.2.2.152 #define ONE\_MINUS\_DST\_ALPHA 5UL

Definition at line 233 of file FT800.h.

4.2.2.153 #define ONE\_MINUS\_SRC\_ALPHA 4UL Definition at line 234 of file FT800.h. 4.2.2.154 #define OPT\_CENTER 1536UL Definition at line 235 of file FT800.h. 4.2.2.155 #define OPT\_CENTERX 512UL Definition at line 236 of file FT800.h. 4.2.2.156 #define OPT\_CENTERY 1024UL Definition at line 237 of file FT800.h. 4.2.2.157 #define OPT\_FLAT 256UL Definition at line 238 of file FT800.h. 4.2.2.158 #define OPT\_MONO 1UL Definition at line 239 of file FT800.h. 4.2.2.159 #define OPT\_NOBACK 4096UL Definition at line 240 of file FT800.h. 4.2.2.160 #define OPT\_NODL 2UL Definition at line 241 of file FT800.h. 4.2.2.161 #define OPT\_NOHANDS 49152UL Definition at line 242 of file FT800.h. 4.2.2.162 #define OPT\_NOHM 16384UL

Definition at line 243 of file FT800.h.

4.2.2.163 #define OPT\_NOPOINTER 16384UL Definition at line 244 of file FT800.h. 4.2.2.164 #define OPT\_NOSECS 32768UL Definition at line 245 of file FT800.h. 4.2.2.165 #define OPT\_NOTICKS 8192UL Definition at line 246 of file FT800.h. 4.2.2.166 #define OPT\_RIGHTX 2048UL Definition at line 247 of file FT800.h. 4.2.2.167 #define OPT\_SIGNED 256UL Definition at line 248 of file FT800.h. 4.2.2.168 #define PALETTED 8UL Definition at line 249 of file FT800.h. 4.2.2.169 #define PLAYCOLOR 0x00a0a080 Definition at line 250 of file FT800.h. 4.2.2.170 #define RAM\_CMD 0x108000UL Definition at line 20 of file FT800.h. 4.2.2.171 #define RAM\_DL 0x100000UL Definition at line 21 of file FT800.h. 4.2.2.172 #define RAM\_G 0x000000UL

Definition at line 22 of file FT800.h.

4.2.2.173 #define RAM\_PAL 0x102000UL Definition at line 23 of file FT800.h. 4.2.2.174 #define RAM\_REG 0x102400UL Definition at line 24 of file FT800.h. 4.2.2.175 #define RECTS 9UL Definition at line 252 of file FT800.h. 4.2.2.176 #define RED 0xFF0000 Red colour Definition at line 318 of file FT800.h. 4.2.2.177 #define REG\_CLOCK 0x102408UL Definition at line 27 of file FT800.h. 4.2.2.178 #define REG\_CMD\_DL 0x1024ecUL Definition at line 28 of file FT800.h. 4.2.2.179 #define REG\_CMD\_READ 0x1024e4UL Definition at line 29 of file FT800.h. 4.2.2.180 #define REG\_CMD\_WRITE 0x1024e8UL Definition at line 30 of file FT800.h. 4.2.2.181 #define REG\_CPURESET 0x10241cUL Definition at line 31 of file FT800.h. 4.2.2.182 #define REG\_CSPREAD 0x102464UL

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Definition at line 32 of file FT800.h.

4.2.2.183 #define REG\_DITHER 0x10245cUL Definition at line 33 of file FT800.h. 4.2.2.184 #define REG\_DLSWAP 0x102450UL Definition at line 34 of file FT800.h. 4.2.2.185 #define REG\_FRAMES 0x102404UL Definition at line 35 of file FT800.h. 4.2.2.186 #define REG\_FREQUENCY 0x10240cUL Definition at line 36 of file FT800.h. 4.2.2.187 #define REG\_GPIO 0x102490UL Definition at line 37 of file FT800.h. 4.2.2.188 #define REG\_GPIO\_DIR 0x10248cUL Definition at line 38 of file FT800.h. 4.2.2.189 #define REG\_HCYCLE 0x102428UL Definition at line 39 of file FT800.h. 4.2.2.190 #define REG\_HOFFSET 0x10242cUL Definition at line 40 of file FT800.h. 4.2.2.191 #define REG\_HSIZE 0x102430UL Definition at line 41 of file FT800.h. 4.2.2.192 #define REG\_HSYNC0 0x102434UL

Definition at line 42 of file FT800.h.

4.2.2.193 #define REG\_HSYNC1 0x102438UL Definition at line 43 of file FT800.h. 4.2.2.194 #define REG\_ID 0x102400UL Definition at line 44 of file FT800.h. 4.2.2.195 #define REG\_INT\_EN 0x10249cUL Definition at line 45 of file FT800.h. 4.2.2.196 #define REG\_INT\_FLAGS 0x102498UL Definition at line 46 of file FT800.h. 4.2.2.197 #define REG\_INT\_MASK 0x1024a0UL Definition at line 47 of file FT800.h. 4.2.2.198 #define REG\_MACRO\_0 0x1024c8UL Definition at line 48 of file FT800.h. 4.2.2.199 #define REG\_MACRO\_1 0x1024ccUL Definition at line 49 of file FT800.h. 4.2.2.200 #define REG\_OUTBITS 0x102458UL Definition at line 50 of file FT800.h. 4.2.2.201 #define REG\_PCLK 0x10246cUL Definition at line 51 of file FT800.h. 4.2.2.202 #define REG\_PCLK\_POL 0x102468UL

Definition at line 52 of file FT800.h.

4.2.2.203 #define REG\_PLAY 0x102488UL Definition at line 53 of file FT800.h. 4.2.2.204 #define REG\_PLAYBACK\_FORMAT 0x1024b4UL Definition at line 54 of file FT800.h. 4.2.2.205 #define REG\_PLAYBACK\_FREQ 0x1024b0UL Definition at line 55 of file FT800.h. 4.2.2.206 #define REG\_PLAYBACK\_LENGTH 0x1024a8UL Definition at line 56 of file FT800.h. 4.2.2.207 #define REG\_PLAYBACK\_LOOP 0x1024b8UL Definition at line 57 of file FT800.h. 4.2.2.208 #define REG\_PLAYBACK\_PLAY 0x1024bcUL Definition at line 58 of file FT800.h. 4.2.2.209 #define REG\_PLAYBACK\_READPTR 0x1024acUL Definition at line 59 of file FT800.h. 4.2.2.210 #define REG\_PLAYBACK\_START 0x1024a4UL Definition at line 60 of file FT800.h. 4.2.2.211 #define REG\_PWM\_DUTY 0x1024c4UL Definition at line 61 of file FT800.h.

4.2.2.212 #define REG\_PWM\_HZ 0x1024c0UL

Definition at line 62 of file FT800.h.

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4.2.2.213 #define REG\_RENDERMODE 0x102410UL Definition at line 63 of file FT800.h. 4.2.2.214 #define REG\_ROTATE 0x102454UL Definition at line 64 of file FT800.h. 4.2.2.215 #define REG\_SNAPSHOT 0x102418UL Definition at line 65 of file FT800.h. 4.2.2.216 #define REG\_SNAPY 0x102414UL Definition at line 66 of file FT800.h. 4.2.2.217 #define REG\_SOUND 0x102484UL Definition at line 67 of file FT800.h. 4.2.2.218 #define REG\_SWIZZLE 0x102460UL Definition at line 68 of file FT800.h. 4.2.2.219 #define REG\_TAG 0x102478UL Definition at line 69 of file FT800.h. 4.2.2.220 #define REG\_TAG\_X 0x102470UL Definition at line 70 of file FT800.h. 4.2.2.221 #define REG\_TAG\_Y 0x102474UL Definition at line 71 of file FT800.h.

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4.2.2.222 #define REG\_TAP\_CRC 0x102420UL

Definition at line 72 of file FT800.h.

4.2.2.223 #define REG\_TAP\_MASK 0x102424UL

Definition at line 73 of file FT800.h.

4.2.2.224 #define REG\_TOUCH\_ADC\_MODE 0x1024f4UL

Definition at line 74 of file FT800.h.

4.2.2.225 #define REG\_TOUCH\_CHARGE 0x1024f8UL

Definition at line 75 of file FT800.h.

4.2.2.226 #define REG\_TOUCH\_DIRECT\_XY 0x102574UL

Definition at line 76 of file FT800.h.

4.2.2.227 #define REG\_TOUCH\_DIRECT\_Z1Z2 0x102578UL

Definition at line 77 of file FT800.h.

4.2.2.228 #define REG\_TOUCH\_MODE 0x1024f0UL

Definition at line 78 of file FT800.h.

4.2.2.229 #define REG\_TOUCH\_OVERSAMPLE 0x102500UL

Definition at line 79 of file FT800.h.

4.2.2.230 #define REG\_TOUCH\_RAW\_XY 0x102508UL

Definition at line 80 of file FT800.h.

 $4.2.2.231 \quad \hbox{\#define REG\_TOUCH\_RZ 0x10250cUL}$ 

Definition at line 81 of file FT800.h.

4.2.2.232 #define REG\_TOUCH\_RZTHRESH 0x102504UL

Definition at line 82 of file FT800.h.

4.2.2.233 #define REG\_TOUCH\_SCREEN\_XY 0x102510UL

Definition at line 83 of file FT800.h.

4.2.2.234 #define REG\_TOUCH\_SETTLE 0x1024fcUL

Definition at line 84 of file FT800.h.

4.2.2.235 #define REG\_TOUCH\_TAG 0x102518UL

Definition at line 85 of file FT800.h.

4.2.2.236 #define REG\_TOUCH\_TAG\_XY 0x102514UL

Definition at line 86 of file FT800.h.

4.2.2.237 #define REG\_TOUCH\_TRANSFORM\_A 0x10251cUL

Definition at line 87 of file FT800.h.

4.2.2.238 #define REG\_TOUCH\_TRANSFORM\_B 0x102520UL

Definition at line 88 of file FT800.h.

4.2.2.239 #define REG\_TOUCH\_TRANSFORM\_C 0x102524UL

Definition at line 89 of file FT800.h.

4.2.2.240 #define REG\_TOUCH\_TRANSFORM\_D 0x102528UL

Definition at line 90 of file FT800.h.

 $4.2.2.241 \quad \hbox{\#define REG\_TOUCH\_TRANSFORM\_E } 0x10252cUL$ 

Definition at line 91 of file FT800.h.

4.2.2.242 #define REG\_TOUCH\_TRANSFORM\_F 0x102530UL

Definition at line 92 of file FT800.h.

4.2.2.243 #define REG\_TRACKER 0x109000UL Definition at line 93 of file FT800.h. 4.2.2.244 #define REG\_VCYCLE 0x10243cUL Definition at line 94 of file FT800.h. 4.2.2.245 #define REG\_VOFFSET 0x102440UL Definition at line 95 of file FT800.h. 4.2.2.246 #define REG\_VOL\_PB 0x10247cUL Definition at line 96 of file FT800.h. 4.2.2.247 #define REG\_VOL\_SOUND 0x102480UL Definition at line 97 of file FT800.h. 4.2.2.248 #define REG\_VSIZE 0x102444UL Definition at line 98 of file FT800.h. 4.2.2.249 #define REG\_VSYNC0 0x102448UL Definition at line 99 of file FT800.h. 4.2.2.250 #define REG\_VSYNC1 0x10244cUL Definition at line 100 of file FT800.h. 4.2.2.251 #define REPEAT 1UL Definition at line 253 of file FT800.h. 4.2.2.252 #define REPLACE 2UL

Definition at line 254 of file FT800.h.

4.2.2.253 #define RGB( r, g, b) ((((r) << 16) | (g) << 8) | (b)

Definition at line 268 of file FT800.h.

4.2.2.254 #define RGB332 4UL

Definition at line 255 of file FT800.h.

4.2.2.255 #define RGB565 7UL

Definition at line 256 of file FT800.h.

4.2.2.256 #define SQ( v ) ((v) \* (v))

Definition at line 269 of file FT800.h.

4.2.2.257 #define SRC\_ALPHA 2UL

Definition at line 257 of file FT800.h.

4.2.2.258 #define TEXT8X8 9UL

Definition at line 258 of file FT800.h.

4.2.2.259 #define TEXTVGA 10UL

Definition at line 259 of file FT800.h.

4.2.2.260 #define TOUCHMODE\_CONTINUOUS 3UL

Definition at line 260 of file FT800.h.

4.2.2.261 #define TOUCHMODE\_FRAME 2UL

Definition at line 261 of file FT800.h.

4.2.2.262 #define TOUCHMODE\_OFF OUL

Definition at line 262 of file FT800.h.

4.2.2.263 #define TOUCHMODE\_ONESHOT 1UL

Definition at line 263 of file FT800.h.

4.2.2.264 #define ULAW\_SAMPLES 1UL

Definition at line 264 of file FT800.h.

4.2.2.265 #define WHITE 0xFFFFFF

White colour

Definition at line 321 of file FT800.h.

4.2.2.266 #define xclock 10

Clock line - output for Galileo

Definition at line 285 of file FT800.h.

4.2.2.267 #define xCS 12

Chip Select line for screen - output for Galileo

Definition at line 287 of file FT800.h.

4.2.2.268 #define xPD 11

PD line for screen - output for Galileo

Definition at line 286 of file FT800.h.

4.2.2.269 #define xSDI 8

SDI line for SPI interface - input for Galileo

Definition at line 283 of file FT800.h.

4.2.2.270 #define xSDO 9

SDO line for SPI interface - output for Galileo

Definition at line 284 of file FT800.h.

4.2.2.271 #define ZERO 0UL

Definition at line 265 of file FT800.h.

4.2.3 Function Documentation

4.2.3.1 void delay\_ms ( int ms )

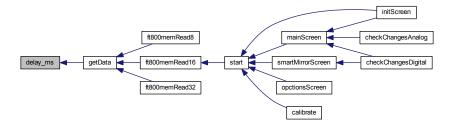
Pauses the program for the amount of time (in milisecond) specified as parameter \*

#### **Parameters**

ms milisecond to delay \*

Definition at line 15 of file FT800.cpp.

Here is the caller graph for this function:



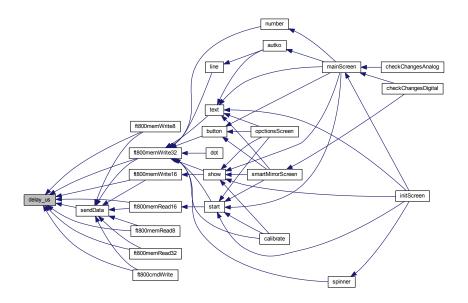
# 4.2.3.2 void delay\_us ( int us )

Pauses the program for the amount of time (in microsecond) specified as parameter \*

### **Parameters**

us microseconds to delay \*

Definition at line 11 of file FT800.cpp.



### 4.2.3.3 void ft800cmdWrite ( unsigned char ftCommand )

Sends FT800 command \*

## **Parameters**

ftCommand   command to send to device *	*
-----------------------------------------	---

Definition at line 304 of file FT800.cpp.

Here is the call graph for this function:



## 4.2.3.4 unsigned char ft800memRead16 (unsigned long ftAddress)

Funtion to read 16 bit value from active device with using SPI interface \*

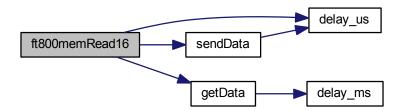
#### **Parameters**

ftAddress	FT800 memory space address (24 bits) *

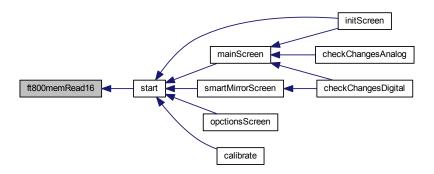
#### Returns

16 bit data obtained from device \*

Definition at line 177 of file FT800.cpp.



Here is the caller graph for this function:



## 4.2.3.5 unsigned long ft800memRead32 ( unsigned long ftAddress )

Funtion to read 32 bit value from active device with using SPI interface  $\ast$ 

### **Parameters**

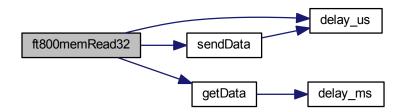
ftAddress	FT800 memory space address (24 bits) *
-----------	----------------------------------------

### Returns

32 bit data obtained from device \*

Definition at line 226 of file FT800.cpp.

Here is the call graph for this function:



## 4.2.3.6 unsigned char ft800memRead8 (unsigned long ftAddress)

Funtion to read 8 bit value from active device with using SPI interface \*

### **Parameters**

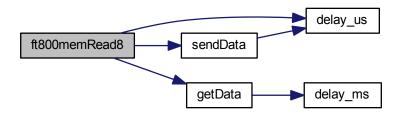
ftAddress	FT800 memory space address (24 bits) *
-----------	----------------------------------------

### Returns

8 bit data obtained from device \*

Definition at line 143 of file FT800.cpp.

Here is the call graph for this function:



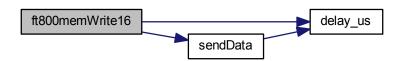
# 4.2.3.7 void ft800memWrite16 ( unsigned long ftAddress, unsigned int ftData16 )

Funtion to send 16 bit value to active device with using SPI interface \*

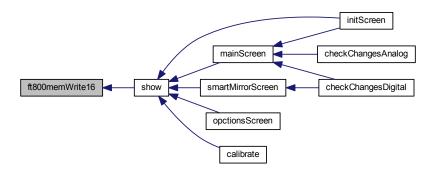
#### **Parameters**

ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 73 of file FT800.cpp.



Here is the caller graph for this function:



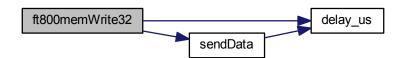
4.2.3.8 void ft800memWrite32 ( unsigned long ftAddress, unsigned long ftData32 )

Funtion to send 32 bit value to active device with using SPI interface \*

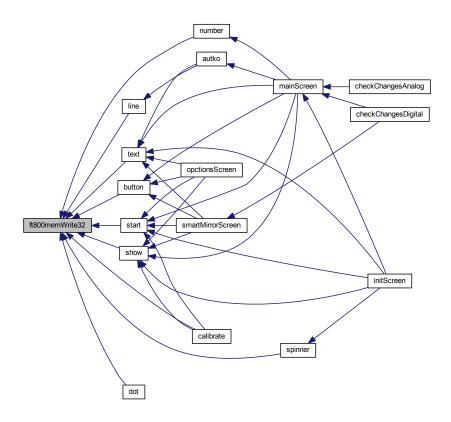
#### **Parameters**

ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 105 of file FT800.cpp.



Here is the caller graph for this function:



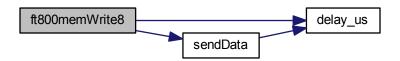
4.2.3.9 void ft800memWrite8 ( unsigned long ftAddress, unsigned char ftData8 )

Funtion to send 8 bit value to active device with using SPI interface  $\ast$ 

## **Parameters**

ftAddress	FT800 memory space address (24 bits) *
ftData8	a byte to send *

Definition at line 45 of file FT800.cpp.



4.2 FT800.h File Reference 57

### 4.2.3.10 unsigned char getData ( )

Function getting data from active device with using SPI interface \*

### Returns

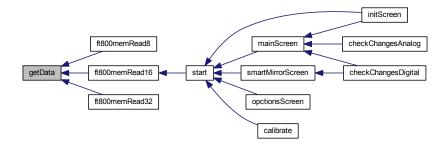
8 bit vcalue with obtained value \*

Definition at line 31 of file FT800.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.2.3.11 unsigned int incCMDOffset ( unsigned int currentOffset, unsigned char commandSize )

Adds commandSize to the currentOffset. Checks for 4K ring-buffer offset roll-over  $\ast$ 

### **Parameters**

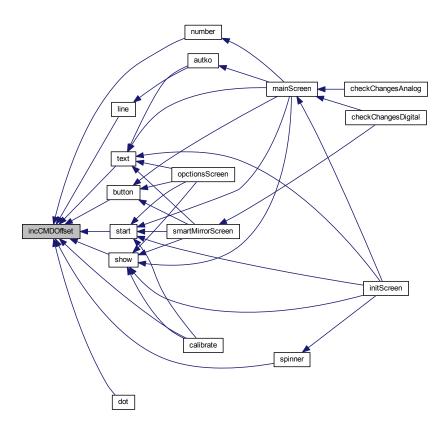
currentOffset	graphics processor command list pointer *
commandSize	number of bytes to increment the offset *

### Returns

the new ring buffer pointer after adding the command  $\ast$ 

Definition at line 294 of file FT800.cpp.

Here is the caller graph for this function:



### 4.2.3.12 void sendData (int data)

Function sending data to active device with using SPI interface \*

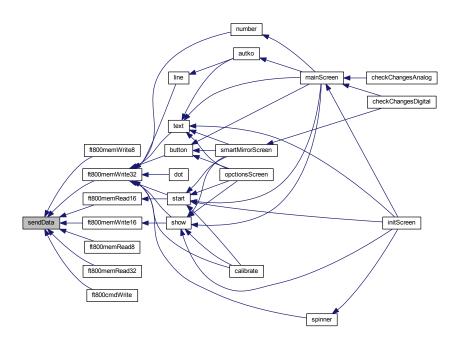
### Parameters

data	8 bit value to send to device *
------	---------------------------------

Definition at line 19 of file FT800.cpp.



Here is the caller graph for this function:

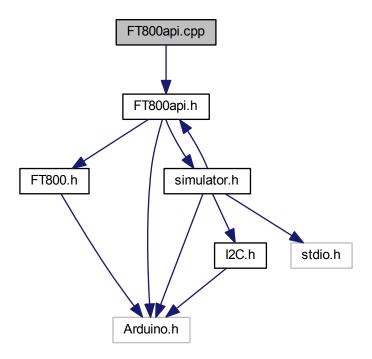


# 4.3 FT800api.cpp File Reference

File containing declarations of all API functions for VM800.

#include "FT800api.h"

Include dependency graph for FT800api.cpp:



### **Functions**

- void initScreen ()
- void autko ()
- void mainScreen ()
- void smartMirrorScreen ()
- void opctionsScreen ()
- void spinner (int16\_t x, int16\_t y, uint16\_t style, uint16\_t scale)
- void button (int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t font, uint16\_t options, const char \*str)
- void text (int16\_t x, int16\_t y, int16\_t font, uint16\_t options, const char \*str)
- void number (int16\_t x, int16\_t y, int16\_t font, uint16\_t options, int value)
- void line (unsigned long color, unsigned long line\_x1, unsigned long line\_y1, unsigned long line\_x2, unsigned long line\_y2, unsigned long width)
- void dot (unsigned long color, unsigned int point\_size, unsigned long point\_x, unsigned long point\_y)
- void calibrate ()
- · void start (unsigned long color)
- void show ()

### 4.3.1 Detailed Description

File containing declarations of all API functions for VM800.

Author

Daniel Sienkiewicz

Date

28 February 2016

### 4.3.2 Function Documentation

4.3.2.1 void autko ( )

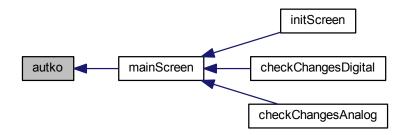
Function drawing car with proper attributes \*

Definition at line 18 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.3.2.2 void button ( int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t font, uint16\_t options, const char \*str)

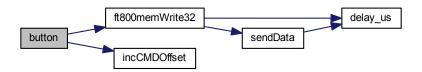
Function which draw a button on the screen \*

### **Parameters**

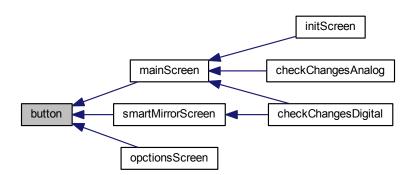
X	x-coordinate on the screen *
У	y-coordinate on the screen *
W	width for the button *
h	height for the button *
font	font fort the button text *
options	options for the button *
str	text to draw inside button *

Definition at line 128 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:

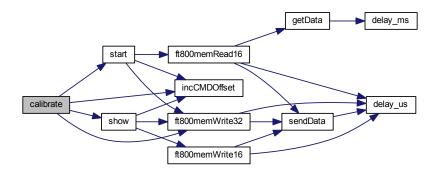


4.3.2.3 void calibrate ( )

Function which calibrate screen \*

Definition at line 249 of file FT800api.cpp.

Here is the call graph for this function:



4.3.2.4 void dot ( unsigned long color, unsigned int point\_size, unsigned long point\_x, unsigned long point\_y )

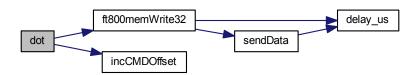
Function which draw a dot on the screen \*

#### **Parameters**

color	dot color *
point_size	size for the dot *
point_x	x-coordinate for the dot $\ast$
point_y	y-coordinate for the dot *

Definition at line 231 of file FT800api.cpp.

Here is the call graph for this function:

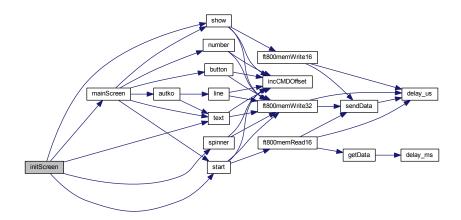


### 4.3.2.5 void initScreen ( )

Function showing init screen durig main screen is loading \*

Definition at line 10 of file FT800api.cpp.

Here is the call graph for this function:



4.3.2.6 void line ( unsigned long *color*, unsigned long *line\_x1*, unsigned long *line\_y1*, unsigned long *line\_x2*, unsigned long *width* )

Function which draw a line on the screen \*

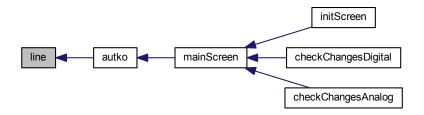
#### **Parameters**

color	line color *
line_x1	x-coordinate for the beginning of the first end $\ast$
line_y1	y-coordinate for the beginning of the first end *
line_x2	x-coordinate for the beginning of the second end *
line_y2	y-coordinate for the beginning of the second end *
width	line width *

Definition at line 210 of file FT800api.cpp.



Here is the caller graph for this function:

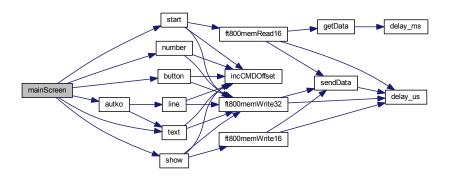


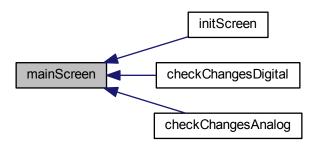
### 4.3.2.7 void mainScreen ( )

Function showing main screen \*

Definition at line 49 of file FT800api.cpp.

Here is the call graph for this function:

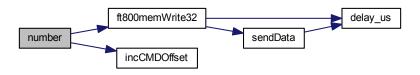




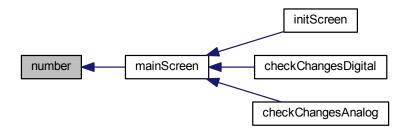
4.3.2.8 void number ( int16\_t x, int16\_t y, int16\_t font, uint16\_t options, int value )

Definition at line 195 of file FT800api.cpp.

Here is the call graph for this function:



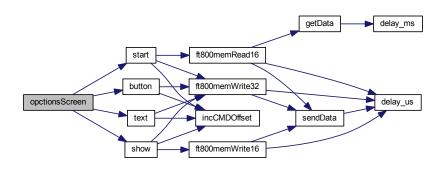
Here is the caller graph for this function:



### 4.3.2.9 void opctionsScreen ( )

Function showing options screen \*

Definition at line 78 of file FT800api.cpp.

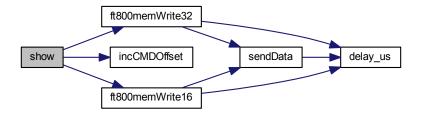


4.3.2.10 void show ( )

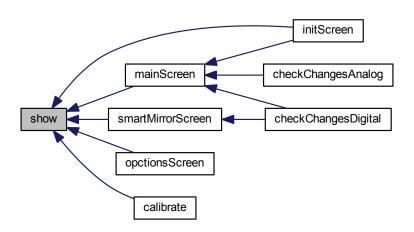
Function showing prerared screen from buffor \*

Definition at line 281 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:

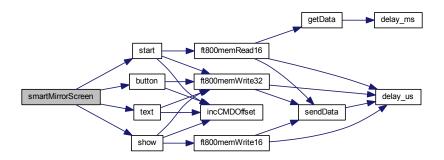


4.3.2.11 void smartMirrorScreen ( )

Function showing smart mirror screen \*

Definition at line 69 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



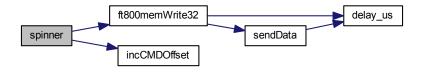
4.3.2.12 void spinner ( int16\_t x, int16\_t y, uint16\_t style, uint16\_t scale )

Function which draw a spinner on the screen \*

### **Parameters**

X	x-coordinate on the screen *
У	y-coordinate on the screen $\ast$
style	look swcreen *
scale	size of spinner *

Definition at line 117 of file FT800api.cpp.



Here is the caller graph for this function:



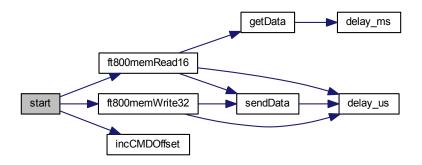
# 4.3.2.13 void start ( unsigned long color )

Function which start inicialize new screen  $\ast$ 

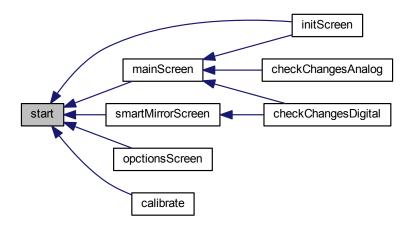
#### **Parameters**

color	backgroud color *
-------	-------------------

Definition at line 260 of file FT800api.cpp.



Here is the caller graph for this function:



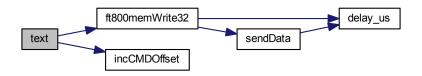
4.3.2.14 void text ( int16\_t x, int16\_t y, int16\_t f ont, uint16\_t f options, const char f f or f

Function which draw a text on the screen \*

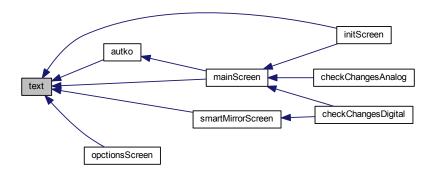
#### **Parameters**

X	x-coordinate on the screen *
У	y-coordinate on the screen *
font	font for the text *
options	options to set for the text *
str	text to draw on the screen *

Definition at line 163 of file FT800api.cpp.



Here is the caller graph for this function:

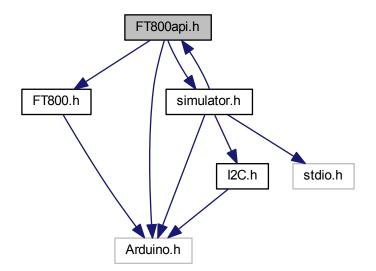


# 4.4 FT800api.h File Reference

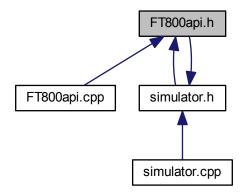
File containing declarations of all API functions for VM800.

```
#include "FT800.h"
#include "simulator.h"
#import <Arduino.h>
```

Include dependency graph for FT800api.h:



This graph shows which files directly or indirectly include this file:



### **Functions**

- · void initScreen ()
- void opctionsScreen ()
- void mainScreen ()
- void smartMirrorScreen ()
- void spinner (int16\_t x, int16\_t y, uint16\_t style, uint16\_t scale)
- void button (int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t font, uint16\_t options, const char \*str)
- void text (int16\_t x, int16\_t y, int16\_t font, uint16\_t options, const char \*str)
- void line (unsigned long color, unsigned long line\_x1, unsigned long line\_y1, unsigned long line\_x2, unsigned long line\_y2, unsigned long width)
- void dot (unsigned long color, unsigned int point\_size, unsigned long point\_x, unsigned long point\_y)
- void start (unsigned long color)
- void number (int16\_t x, int16\_t y, int16\_t font, uint16\_t options, int32\_t value)
- void show ()
- · void calibrate ()
- void autko ()
- void track (int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t tag)

#### **Variables**

- unsigned int cmdOffset
- unsigned int cmdBufferRd
- · unsigned int cmdBufferWr
- struct car \* audi
- int timeR

### 4.4.1 Detailed Description

File containing declarations of all API functions for VM800.

**Author** 

Daniel Sienkiewicz

Date

28 February 2016

### 4.4.2 Function Documentation

4.4.2.1 void autko ( )

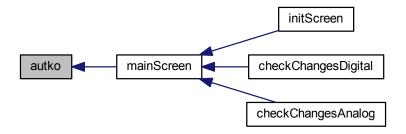
Function drawing car with proper attributes \*

Definition at line 18 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.4.2.2 void button ( int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t font, uint16\_t options, const char \* str )

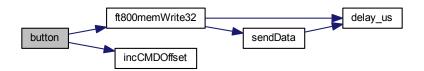
Function which draw a button on the screen \*

### **Parameters**

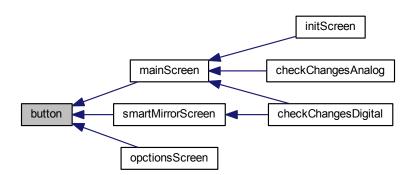
X	x-coordinate on the screen $\ast$
У	y-coordinate on the screen $\ast$
W	width for the button *
h	height for the button *
font	font fort the button text *
options	options for the button *
str	text to draw inside button *

Definition at line 128 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:

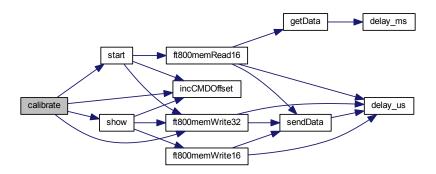


4.4.2.3 void calibrate ( )

Function which calibrate screen \*

Definition at line 249 of file FT800api.cpp.

Here is the call graph for this function:



4.4.2.4 void dot ( unsigned long *color*, unsigned int *point\_size*, unsigned long *point\_x*, unsigned long *point\_y* )

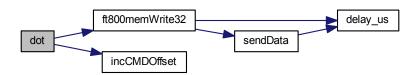
Function which draw a dot on the screen \*

#### **Parameters**

color	dot color *
point_size	size for the dot *
point_x	x-coordinate for the dot *
point_y	y-coordinate for the dot *

Definition at line 231 of file FT800api.cpp.

Here is the call graph for this function:

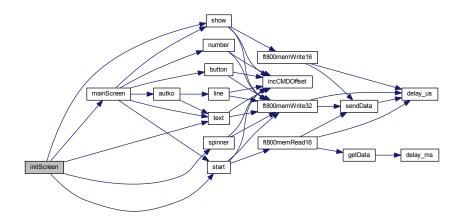


### 4.4.2.5 void initScreen ( )

Function showing init screen durig main screen is loading \*

Definition at line 10 of file FT800api.cpp.

Here is the call graph for this function:



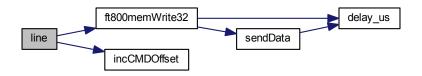
4.4.2.6 void line ( unsigned long *color*, unsigned long *line\_x1*, unsigned long *line\_y1*, unsigned long *line\_x2*, unsigned long *width* )

Function which draw a line on the screen \*

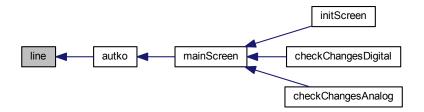
#### **Parameters**

color	line color *
line_x1	x-coordinate for the beginning of the first end $\ast$
line_y1	y-coordinate for the beginning of the first end *
line_x2	x-coordinate for the beginning of the second end *
line_y2	y-coordinate for the beginning of the second end *
width	line width *

Definition at line 210 of file FT800api.cpp.



Here is the caller graph for this function:

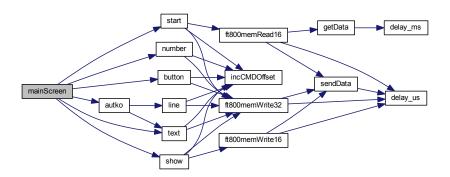


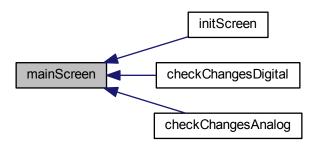
### 4.4.2.7 void mainScreen ( )

Function showing main screen \*

Definition at line 49 of file FT800api.cpp.

Here is the call graph for this function:





### 4.4.2.8 void number ( int16\_t x, int16\_t y, int16\_t font, uint16\_t options, int32\_t value )

Function which draw a number on the screen \*

#### **Parameters**

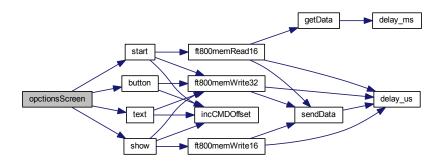
X	x-coordinate on the screen *
У	y-coordinate on the screen *
font	font for the number *
options	options to set for the number *
value	value to draw on the screen *

### 4.4.2.9 void opctionsScreen ( )

Function showing options screen \*

Definition at line 78 of file FT800api.cpp.

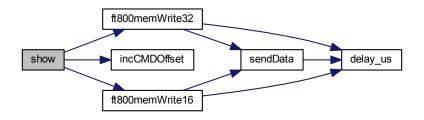
Here is the call graph for this function:



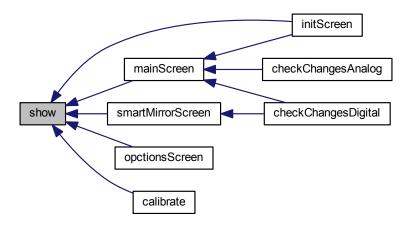
### 4.4.2.10 void show ( )

Function showing prerared screen from buffor \*

Definition at line 281 of file FT800api.cpp.



Here is the caller graph for this function:

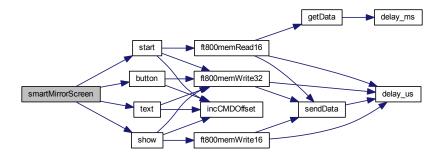


### 4.4.2.11 void smartMirrorScreen ( )

Function showing smart mirror screen \*

Definition at line 69 of file FT800api.cpp.

Here is the call graph for this function:





### 4.4.2.12 void spinner ( int16\_t x, int16\_t y, uint16\_t style, uint16\_t scale )

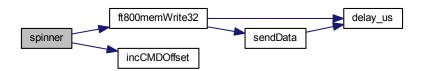
Function which draw a spinner on the screen \*

#### **Parameters**

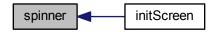
X	x-coordinate on the screen *	
У	y-coordinate on the screen *	
style	look swcreen *	
scale	scale size of spinner *	

Definition at line 117 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



### 4.4.2.13 void start ( unsigned long color )

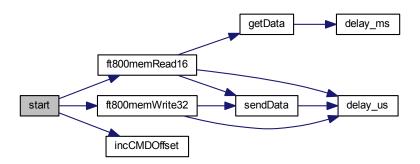
Function which start inicialize new screen \*

#### **Parameters**

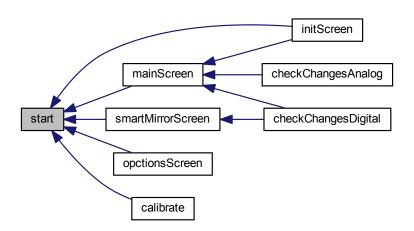
color	backgroud color *
COIOI	backgroud color *

Definition at line 260 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.4.2.14 void text ( int16\_t x, int16\_t y, int16\_t font, uint16\_t options, const char \*str )

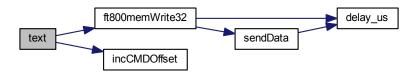
Function which draw a text on the screen \*

#### **Parameters**

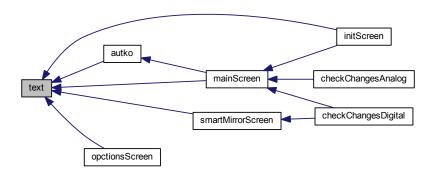
X	x-coordinate on the screen *	
У	y-coordinate on the screen *	
font	font for the text *	
options	options to set for the text *	
str	text to draw on the screen *	

Definition at line 163 of file FT800api.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.4.2.15 void track ( int16\_t x, int16\_t y, int16\_t w, int16\_t h, int16\_t tag )

### 4.4.3 Variable Documentation

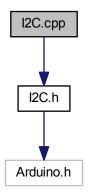
- 4.4.3.1 struct car\* audi
- 4.4.3.2 unsigned int cmdBufferRd
- 4.4.3.3 unsigned int cmdBufferWr
- 4.4.3.4 unsigned int cmdOffset
- 4.4.3.5 int timeR

# 4.5 I2C.cpp File Reference

File containing declarations of function to read data with using I2C protocol.

#include "I2C.h"

Include dependency graph for I2C.cpp:



### **Functions**

• int readPCF (char adres)

### **Variables**

• int **d** = 1

### 4.5.1 Detailed Description

File containing declarations of function to read data with using I2C protocol.

Author

Daniel Sienkiewicz

Date

28 February 2016

### 4.5.2 Function Documentation

4.5.2.1 int readPCF ( char adres )

Reading value from PCF8574N I/O Expander \*

#### **Parameters**

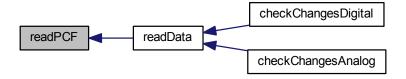
adres	The address of PCF8574N I/O Expander *
-------	----------------------------------------

#### Returns

Value from the specified PCF8574N I/O Expander \*

Definition at line 12 of file I2C.cpp.

Here is the caller graph for this function:



### 4.5.3 Variable Documentation

#### 4.5.3.1 int d = 1

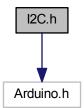
Delay time - for PCF handing

Definition at line 10 of file I2C.cpp.

# 4.6 I2C.h File Reference

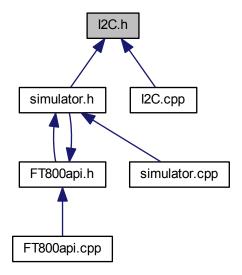
File containing declarations of function to read data with using I2C protocol.

#import <Arduino.h>
Include dependency graph for I2C.h:



4.6 I2C.h File Reference 85

This graph shows which files directly or indirectly include this file:



### **Macros**

- #define sda 7
- #define scl 6
- #define pinInt0 2

### **Functions**

• int readPCF (char adres)

### 4.6.1 Detailed Description

File containing declarations of function to read data with using I2C protocol.

### Author

**Daniel Sienkiewicz** 

### Date

28 February 2016

### 4.6.2 Macro Definition Documentation

4.6.2.1 #define pinInt0 2

Interrput port number

Definition at line 14 of file I2C.h.

4.6.2.2 #define scl 6

SCL port number

Definition at line 13 of file I2C.h.

4.6.2.3 #define sda 7

SDA port number

Definition at line 12 of file I2C.h.

#### 4.6.3 Function Documentation

4.6.3.1 int readPCF ( char adres )

Reading value from PCF8574N I/O Expander \*

**Parameters** 

adres The address of PCF8574N I/O Expander \*

#### Returns

Value from the specified PCF8574N I/O Expander \*

Definition at line 12 of file I2C.cpp.

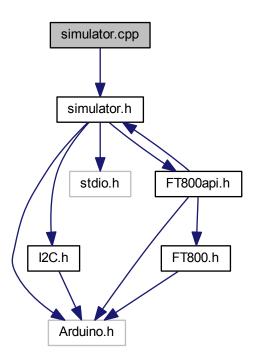


# 4.7 simulator.cpp File Reference

File containing declarations of all functions required to communication with car simulator.

#include "simulator.h"

Include dependency graph for simulator.cpp:



### **Functions**

- void printObj (struct car \*obj, char \*d)
- int readTemp (int portNumber)
- void save (struct car \*audi, struct car \*tmp)
- struct car \* readData ()
- void checkChangesDigital ()
- void sendData ()
- void checkChangesAnalog ()

### 4.7.1 Detailed Description

File containing declarations of all functions required to communication with car simulator.

Author

Daniel Sienkiewicz

Date

28 February 2016

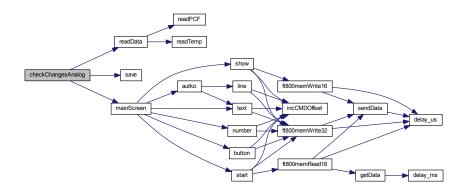
### 4.7.2 Function Documentation

### 4.7.2.1 void checkChangesAnalog ( )

Check if sth on analog ports was changed \*

Definition at line 138 of file simulator.cpp.

Here is the call graph for this function:

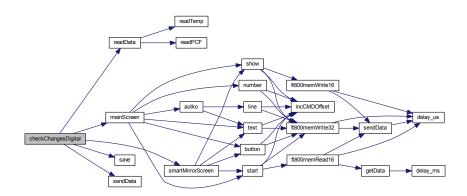


### 4.7.2.2 void checkChangesDigital ( )

Check if sth on digital ports was changed \*

Definition at line 96 of file simulator.cpp.

Here is the call graph for this function:



### 4.7.2.3 void printObj ( struct car \* obj, char \* d )

Debug function to print car structure on a serial monitor \* console and to log file on SD car \*

#### **Parameters**

Car	struct to print and save with selected format into file*
d	actual date *

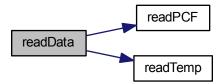
Definition at line 10 of file simulator.cpp.

4.7.2.4 struct car\* readData()

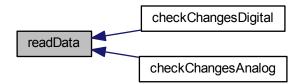
Reading data about car status \*

Definition at line 77 of file simulator.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



### 4.7.2.5 int readTemp ( int portNumber )

Reading value from analog ports (temperatures) \*

#### **Parameters**

portNumber	The number of the analog input pin to read *

#### Returns

Value from the specified analog pin \*

Definition at line 63 of file simulator.cpp.

Here is the caller graph for this function:



4.7.2.6 void save ( struct car \* audi, struct car \* tmp )

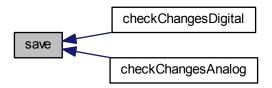
Copying data function from temporary to main struct  $\ast$ 

### **Parameters**

which data are copied *	np Structures to and from	*audi,*tmp
-------------------------	---------------------------	------------

Definition at line 67 of file simulator.cpp.

Here is the caller graph for this function:

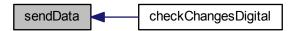


4.7.2.7 void sendData ( )

Sending actial data to web server \*

Definition at line 132 of file simulator.cpp.

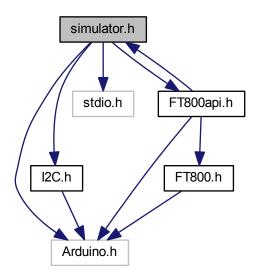
Here is the caller graph for this function:



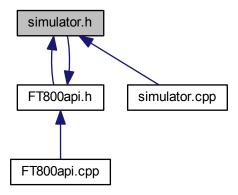
# 4.8 simulator.h File Reference

File containing declarations of all functions required to communication with car simulator.

```
#import <Arduino.h>
#include "I2C.h"
#include <stdio.h>
#include "FT800api.h"
Include dependency graph for simulator.h:
```



This graph shows which files directly or indirectly include this file:



### **Classes**

· struct car

### **Functions**

- void printObj (struct car \*obj, char \*d)
- void checkChangesAnalog ()
- void checkChangesDigital ()
- struct car \* readData ()
- void save (struct car \*audi, struct car \*tmp)
- int readTemp (int portNumber)
- void sendData ()

### Variables

- struct car \* audi
- int dataFormat
- int saveData
- · short int screenNR

### 4.8.1 Detailed Description

File containing declarations of all functions required to communication with car simulator.

### Author

Daniel Sienkiewicz

Date

28 February 2016

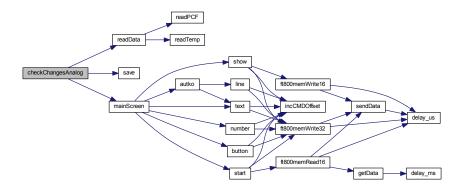
# 4.8.2 Function Documentation

## 4.8.2.1 void checkChangesAnalog ( )

Check if sth on analog ports was changed \*

Definition at line 138 of file simulator.cpp.

Here is the call graph for this function:

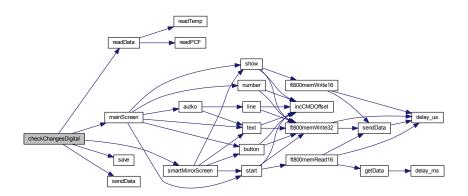


# 4.8.2.2 void checkChangesDigital ( )

Check if sth on digital ports was changed \*

Definition at line 96 of file simulator.cpp.

Here is the call graph for this function:



# 4.8.2.3 void printObj ( struct car \* obj, char \* d )

Debug function to print car structure on a serial monitor \* console and to log file on SD car \*

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#### **Parameters**

Cai	struct to print and save with selected format into file*
d	actual date *

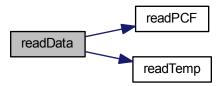
Definition at line 10 of file simulator.cpp.

4.8.2.4 struct car\* readData()

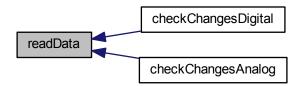
Reading data about car status \*

Definition at line 77 of file simulator.cpp.

Here is the call graph for this function:



Here is the caller graph for this function:



4.8.2.5 int readTemp ( int portNumber )

Reading value from analog ports (temperatures) \*

#### **Parameters**

portNumber -	The number of the analog input pin to read *

## Returns

Value from the specified analog pin \*

Definition at line 63 of file simulator.cpp.

Here is the caller graph for this function:



4.8.2.6 void save ( struct car \* audi, struct car \* tmp )

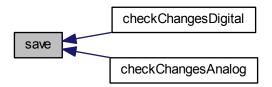
Copying data function from temporary to main struct  $\ast$ 

## **Parameters**

*audi,*tmp	Structures to and from which data are copied *

Definition at line 67 of file simulator.cpp.

Here is the caller graph for this function:



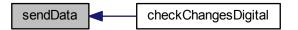
4.8.2.7 void sendData ( )

Sending actial data to web server \*

Definition at line 132 of file simulator.cpp.

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Here is the caller graph for this function:



- 4.8.3 Variable Documentation
- 4.8.3.1 struct car\* audi
- 4.8.3.2 int dataFormat
- 4.8.3.3 int saveData
- 4.8.3.4 short int screenNR

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