1. Description

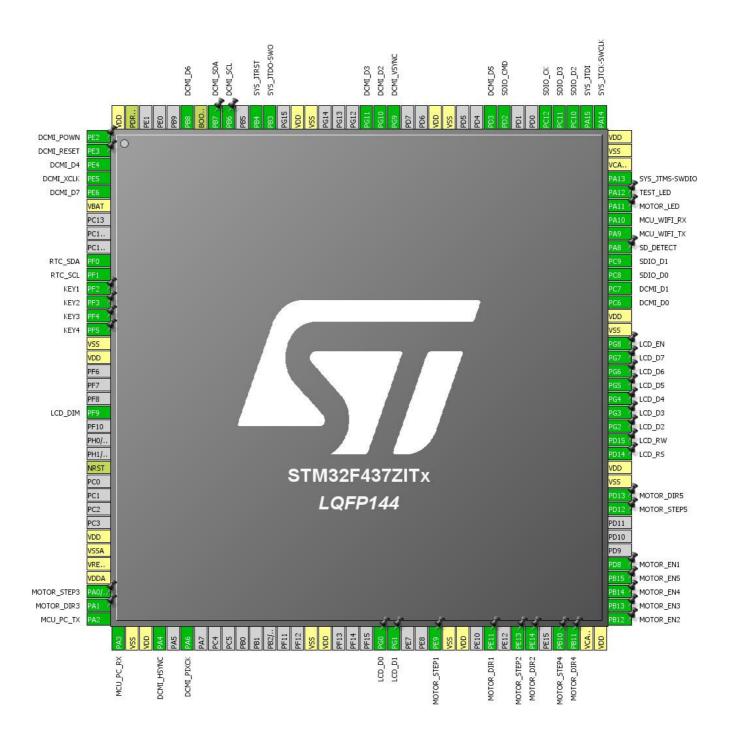
1.1. Project

Project Name	WiFi_Camera
Board Name	WiFi_Camera
Generated with:	STM32CubeMX 4.23.0
Date	03/11/2018

1.2. MCU

MCU Series	STM32F4
MCU Line	STM32F427/437
MCU name	STM32F437ZITx
MCU Package	LQFP144
MCU Pin number	144

2. Pinout Configuration



3. Pins Configuration

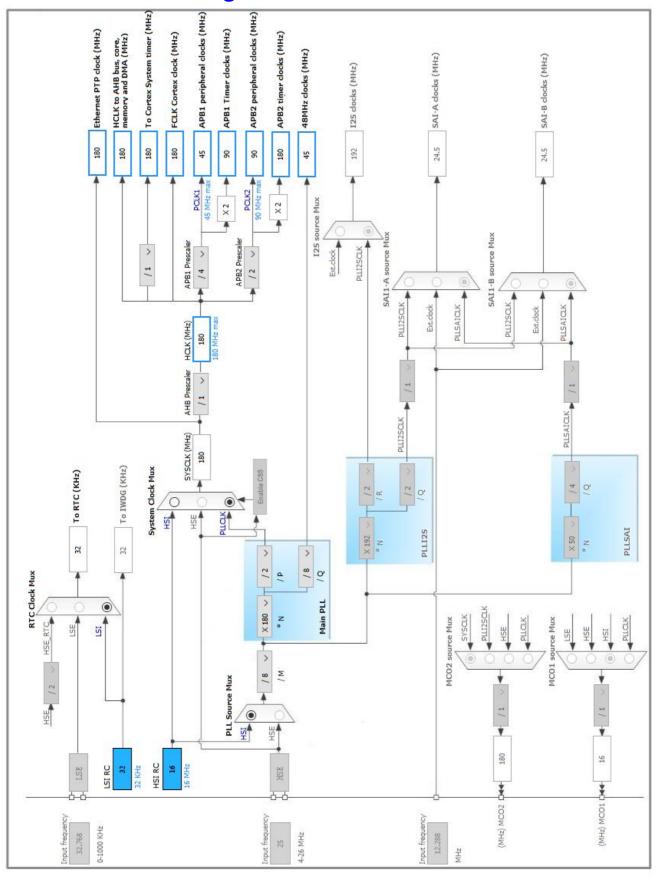
Pin Number LQFP144	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
1	PE2 *	I/O	GPIO_Output	DCMI_POWN
2	PE3 *	I/O	GPIO_Output	DCMI_RESET
3	PE4	I/O	DCMI_D4	
4	PE5	I/O	TIM9_CH1	DCMI_XCLK
5	PE6	I/O	DCMI_D7	
6	VBAT	Power		
10	PF0	I/O	I2C2_SDA	RTC_SDA
11	PF1	I/O	I2C2_SCL	RTC_SCL
12	PF2 *	I/O	GPIO_Input	KEY1
13	PF3 *	I/O	GPIO_Input	KEY2
14	PF4 *	I/O	GPIO_Input	KEY3
15	PF5 *	I/O	GPIO_Input	KEY4
16	VSS	Power		
17	VDD	Power		
21	PF9	I/O	TIM14_CH1	LCD_DIM
25	NRST	Reset		
30	VDD	Power		
31	VSSA	Power		
32	VREF+	Power		
33	VDDA	Power		
34	PA0/WKUP *	I/O	GPIO_Output	MOTOR_STEP3
35	PA1 *	I/O	GPIO_Output	MOTOR_DIR3
36	PA2	I/O	USART2_TX	MCU_PC_TX
37	PA3	I/O	USART2_RX	MCU_PC_RX
38	VSS	Power		
39	VDD	Power		
40	PA4	I/O	DCMI_HSYNC	
42	PA6	I/O	DCMI_PIXCK	
51	VSS	Power		
52	VDD	Power		
56	PG0 *	I/O	GPIO_Output	LCD_D0
57	PG1 *	I/O	GPIO_Output	LCD_D1
60	PE9 *	I/O	GPIO_Output	MOTOR_STEP1
61	VSS	Power		
62	VDD	Power		
64	PE11 *	I/O	GPIO_Output	MOTOR_DIR1

Pin Number	Pin Name	Pin Type	Alternate	Label
LQFP144	(function after	7 7	Function(s)	
LGIIITT	reset)		i dilodon(3)	
66	PE13 *	I/O	GPIO_Output	MOTOR_STEP2
67	PE14 *	I/O	GPIO_Output	MOTOR_DIR2
69	PB10 *	I/O	GPIO_Output	MOTOR_STEP4
70	PB11 *	I/O	GPIO_Output	MOTOR_DIR4
71	VCAP_1	Power	Of 10_Output	WOTON_DIN4
72	VDD	Power		
73	PB12 *	I/O	GPIO_Output	MOTOR_EN2
74	PB13 *	I/O	GPIO_Output	MOTOR_EN3
75	PB14 *	I/O	GPIO_Output	MOTOR_EN4
76	PB15 *	I/O	GPIO_Output	MOTOR_EN5
77	PD8 *	I/O	GPIO_Output	MOTOR_EN1
81	PD12 *	I/O	GPIO_Output	MOTOR_STEP5
82	PD13 *	I/O	GPIO_Output	MOTOR_DIR5
83	VSS	Power	01 10_0utput	MOTOR_BIRO
84	VDD	Power		
85	PD14 *	I/O	GPIO_Output	LCD_RS
86	PD15 *	I/O	GPIO_Output	LCD_RW
87	PG2 *	I/O	GPIO_Output	LCD_D2
88	PG3 *	I/O	GPIO_Output	LCD_D3
89	PG4 *	I/O	GPIO_Output	LCD_D4
90	PG5 *	I/O	GPIO_Output	LCD_D5
91	PG6 *	I/O	GPIO_Output	LCD_D6
92	PG7 *	1/0	GPIO_Output	LCD_D7
93	PG8 *	I/O	GPIO_Output	LCD_EN
94	VSS	Power	01 10_0utput	LOD_LIV
95	VDD	Power		
96	PC6	I/O	DCMI D0	
97	PC7	I/O	DCMI_D1	
98	PC8	I/O	SDIO_D0	
99	PC9	1/0	SDIO_D1	
100	PA8	1/0	GPIO_EXTI8	SD_DETECT
101	PA9	1/0	USART1_TX	MCU_WIFI_TX
102	PA10	1/0	USART1_RX	MCU_WIFI_RX
103	PA11 *	1/0	GPIO_Output	MOTOR_LED
104	PA11 *	I/O	GPIO_Output	TEST_LED
105	PA13	1/0	SYS_JTMS-SWDIO	TEOT_LED
106	VCAP_2	Power	313_31W3-3WDIO	
107	VCAP_2 VSS	Power		
107	VDD	Power		
100	1 VUU	ı owel		

Pin Number LQFP144	Pin Name (function after reset)	Pin Type	Alternate Function(s)	Label
109	PA14	I/O	SYS_JTCK-SWCLK	
110	PA15	I/O	SYS_JTDI	
111	PC10	I/O	SDIO_D2	
112	PC11	I/O	SDIO_D3	
113	PC12	I/O	SDIO_CK	
116	PD2	I/O	SDIO_CMD	
117	PD3	I/O	DCMI_D5	
120	VSS	Power		
121	VDD	Power		
124	PG9	I/O	DCMI_VSYNC	
125	PG10	I/O	DCMI_D2	
126	PG11	I/O	DCMI_D3	
130	VSS	Power		
131	VDD	Power		
133	PB3	I/O	SYS_JTDO-SWO	
134	PB4	I/O	SYS_JTRST	
136	PB6 *	I/O	GPIO_Output	DCMI_SCL
137	PB7 *	I/O	GPIO_Output	DCMI_SDA
138	воото	Boot		
139	PB8	I/O	DCMI_D6	
143	PDR_ON	Reset		
144	VDD	Power		

^{*} The pin is affected with an I/O function

4. Clock Tree Configuration



5. IPs and Middleware Configuration

5.1. DCMI

DCMI: Slave 8 bits External Synchro

5.1.1. Parameter Settings:

Mode Config:

Pixel clock polarity Active on Rising edge *

Vertical synchronization polarity Active Low Horizontal synchronization polarity Active Low

Frequency of frame capture All frames are captured

JPEG mode Enabled *

5.2. I2C2

12C: 12C

5.2.1. Parameter Settings:

Master Features:

I2C Speed Mode Standard Mode

I2C Clock Speed (Hz) 100000

Slave Features:

Clock No Stretch Mode Disabled
Primary Address Length selection 7-bit
Dual Address Acknowledged Disabled
Primary slave address 0
General Call address detection Disabled

5.3. RTC

mode: Activate Clock Source

mode: Activate Calendar

5.3.1. Parameter Settings:

General:

Hour Format Hourformat 24

Asynchronous Predivider value 127 Synchronous Predivider value 255

Calendar Time:

Data Format BCD data format

 Hours
 22 *

 Minutes
 5 *

 Seconds
 0

Day Light Saving: value of hour adjustment Daylightsaving None Store Operation Storeoperation Reset

Calendar Date:

Week Day

Month

February *

Date

25 *

Date 25 * Year 18 *

5.4. SDIO

Mode: SD 4 bits Wide bus

5.4.1. Parameter Settings:

SDIO parameters:

Clock transition on which the bit capture is made Rising transition SDIO Clock divider bypass Disable

SDIO Clock output enable when the bus is idle Disable the power save for the clock

SDIO hardware flow control

The hardware control flow is enabled *

SDIOCLK clock divide factor 0

5.5. SYS

Debug: JTAG (5 pins)
Timebase Source: TIM1

5.6. TIM6

mode: Activated

5.6.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 180 *

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 1000 *

Trigger Output (TRGO) Parameters:

Trigger Event Selection Reset (UG bit from TIMx_EGR)

5.7. TIM9

mode: Clock Source

Channel1: PWM Generation CH1

5.7.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 10 *

Internal Clock Division (CKD) No Division

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 5 *
Fast Mode Disable
CH Polarity High

5.8. TIM14

mode: Activated

Channel1: PWM Generation CH1

5.8.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value)

Counter Mode

Counter Period (AutoReload Register - 16 bits value)

Internal Clock Division (CKD)

90 *

10 *

No Division

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0
Fast Mode Disable
CH Polarity High

5.9. USART1

Mode: Asynchronous

5.9.1. Parameter Settings:

Basic Parameters:

Baud Rate 921600 *

Word Length 8 Bits (including Parity)

Parity None Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples

5.10. USART2

Mode: Asynchronous

5.10.1. Parameter Settings:

Basic Parameters:

Baud Rate 115200

Word Length 8 Bits (including Parity)

Parity None

Stop Bits 1

Advanced Parameters:

Data Direction Receive and Transmit

Over Sampling 16 Samples

5.11. FATFS

mode: SD Card

5.11.1. Set Defines:

Version:

FATFS version R0.12c

Function Parameters:

FS_READONLY (Read-only mode) Disabled
FS_MINIMIZE (Minimization level) Disabled

USE_STRFUNC (String functions) Enabled with LF -> CRLF conversion

USE_FIND (Find functions)

USE_MKFS (Make filesystem function)

USE_FASTSEEK (Fast seek function)

USE_EXPAND (Use f_expand function)

USE_CHMOD (Change attributes function)

USE_LABEL (Volume label functions)

Disabled

USE_FORWARD (Forward function)

Disabled

Locale and Namespace Parameters:

CODE_PAGE (Code page on target)

USE_LFN (Use Long Filename)

MAX_LFN (Max Long Filename)

255

LFN_UNICODE (Enable Unicode)

STRF_ENCODE (Character encoding)

UTF-8

FS_RPATH (Relative Path)

Disabled

Physical Drive Parameters:

VOLUMES (Logical drives) 1

MAX_SS (Maximum Sector Size) 512

MIN_SS (Minimum Sector Size) 512

MULTI_PARTITION (Volume partitions feature) Disabled

USE_TRIM (Erase feature) Disabled

FS_NOFSINFO (Force full FAT scan) 0

System Parameters:

FS_TINY (Tiny mode) Disabled

FS_EXFAT (Support of exFAT file system) Disabled

FS_NORTC (Timestamp feature) Dynamic timestamp

NORTC_YEAR (Year for timestamp) 2015

NORTC_MON (Month for timestamp) 6

NORTC_MDAY (Day for timestamp) 4

FS_REENTRANT (Re-Entrancy) Enabled

FS_TIMEOUT (Timeout ticks) 1000

SYNC_t (O/S sync object) osSemaphoreId

FS_LOCK (Number of files opened simultaneously) 2

5.11.2. IPs instances:

SDIO/SDMMC:

SDIO instance SDIO
Use dma template Enabled

5.12. FREERTOS

mode: Enabled

5.12.1. Config parameters:

Versions:

FreeRTOS version 9.0.0
CMSIS-RTOS version 1.02

Kernel settings:

USE_PREEMPTION Enabled

CPU_CLOCK_HZ SystemCoreClock

TICK_RATE_HZ 1000 MAX_PRIORITIES 10 * 128 MINIMAL_STACK_SIZE MAX_TASK_NAME_LEN 16 USE_16_BIT_TICKS Disabled IDLE_SHOULD_YIELD Enabled USE_MUTEXES Enabled USE_RECURSIVE_MUTEXES Disabled USE_COUNTING_SEMAPHORES Disabled QUEUE_REGISTRY_SIZE Disabled USE_APPLICATION_TASK_TAG ENABLE_BACKWARD_COMPATIBILITY Enabled

USE_PORT_OPTIMISED_TASK_SELECTION Enabled
USE_TICKLESS_IDLE Disabled
USE_TASK_NOTIFICATIONS Enabled

Memory management settings:

Memory AllocationDynamicTOTAL_HEAP_SIZE15360Memory Management schemeheap_4

Hook function related definitions:

USE_IDLE_HOOK

USE_TICK_HOOK

Disabled

USE_MALLOC_FAILED_HOOK

USE_DAEMON_TASK_STARTUP_HOOK

CHECK_FOR_STACK_OVERFLOW

Disabled

Run time and task stats gathering related definitions:

GENERATE_RUN_TIME_STATS Disabled

USE_TRACE_FACILITY Enabled *

USE_STATS_FORMATTING_FUNCTIONS Disabled

Co-routine related definitions:

USE_CO_ROUTINES Disabled MAX_CO_ROUTINE_PRIORITIES 2

Software timer definitions:

USE_TIMERS Enabled
TIMER_TASK_PRIORITY 9 *

TIMER_QUEUE_LENGTH 10

TIMER_TASK_STACK_DEPTH 256

Interrupt nesting behaviour configuration:

LIBRARY_LOWEST_INTERRUPT_PRIORITY 15
LIBRARY_MAX_SYSCALL_INTERRUPT_PRIORITY 5

5.12.2. Include parameters:

Include definitions:

vTaskPrioritySet Enabled uxTaskPriorityGet Enabled vTaskDelete Enabled vTaskCleanUpResources Disabled vTaskSuspend Enabled vTaskDelayUntil Disabled vTaskDelay Enabled xTaskGetSchedulerState Enabled

xTaskResumeFromISR Enabled Disabled xQueueGetMutexHolder Disabled xSemaphoreGetMutexHolder pcTaskGetTaskName Disabled Disabled ux Task Get Stack High Water MarkDisabled xTaskGetCurrentTaskHandle eTaskGetState Disabled $x \\ Event Group Set Bit From ISR$ Disabled xTimerPendFunctionCall Enabled * xTaskAbortDelay Disabled Disabled xTaskGetHandle

* User modified value

6. System Configuration

6.1. GPIO configuration

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
DCMI	PE4	DCMI_D4	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PE6	DCMI_D7	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PA4	DCMI_HSYNC	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PA6	DCMI_PIXCK	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PC6	DCMI_D0	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PC7	DCMI_D1	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PD3	DCMI_D5	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PG9	DCMI_VSYNC	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PG10	DCMI_D2	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PG11	DCMI_D3	Alternate Function Push Pull	No pull-up and no pull-down	Low	
	PB8	DCMI_D6	Alternate Function Push Pull	No pull-up and no pull-down	Low	
I2C2	PF0	I2C2_SDA	Alternate Function Open Drain	Pull-up	Very High *	RTC_SDA
	PF1	I2C2_SCL	Alternate Function Open Drain	Pull-up	Very High	RTC_SCL
SDIO	PC8	SDIO_D0	Alternate Function Push Pull	Pull-up *	Very High	
	PC9	SDIO_D1	Alternate Function Push Pull	Pull-up *	Very High	
	PC10	SDIO_D2	Alternate Function Push Pull	Pull-up *	Very High	
	PC11	SDIO_D3	Alternate Function Push Pull	Pull-up *	Very High	
	PC12	SDIO_CK	Alternate Function Push Pull	Pull-up *	Very High	
	PD2	SDIO_CMD	Alternate Function Push Pull	Pull-up *	Very High	
SYS	PA13	SYS_JTMS- SWDIO	n/a	n/a	n/a	
	PA14	SYS_JTCK- SWCLK	n/a	n/a	n/a	
	PA15	SYS_JTDI	n/a	n/a	n/a	
	PB3	SYS_JTDO- SWO	n/a	n/a	n/a	
	PB4	SYS_JTRST	n/a	n/a	n/a	
TIM9	PE5	TIM9_CH1	Alternate Function Push Pull	No pull-up and no pull-down	High *	DCMI_XCLK
TIM14	PF9	TIM14_CH1	Alternate Function Push Pull	No pull-up and no pull-down	Low	LCD_DIM
USART1	PA9	USART1_TX	Alternate Function Push Pull	Pull-up	Very High	MCU_WIFI_TX

IP	Pin	Signal	GPIO mode	GPIO pull/up pull down	Max Speed	User Label
	PA10	USART1_RX	Alternate Function Push Pull	Pull-up	Very High	MCU_WIFI_RX
USART2	PA2	USART2_TX	Alternate Function Push Pull	Pull-up	Very High	MCU_PC_TX
	PA3	USART2_RX	Alternate Function Push Pull	Pull-up	Very High	MCU_PC_RX
GPIO	PE2	GPIO_Output	Output Push Pull	Pull-up *	Medium *	DCMI_POWN
	PE3	GPIO_Output	Output Push Pull	Pull-up *	Medium *	DCMI_RESET
	PF2	GPIO_Input	Input mode	Pull-up *	n/a	KEY1
	PF3	GPIO_Input	Input mode	Pull-up *	n/a	KEY2
	PF4	GPIO_Input	Input mode	Pull-up *	n/a	KEY3
	PF5	GPIO_Input	Input mode	Pull-up *	n/a	KEY4
	PA0/WKUP	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_STEP3
	PA1	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_DIR3
	PG0	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D0
	PG1	GPIO_Output	Output Push Pull	Pull-up *	Medium *	 LCD_D1
	PE9	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_STEP1
	PE11	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_DIR1
	PE13	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_STEP2
	PE14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_DIR2
	PB10	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_STEP4
	PB11	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_DIR4
	PB12	GPIO_Output	Output Push Pull	Pull-up *	Low	MOTOR_EN2
	PB13	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_EN3
	PB14	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_EN4
	PB15	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_EN5
	PD8	GPIO_Output	Output Push Pull	Pull-up *	Low	MOTOR_EN1
	PD12	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_STEP5
	PD13	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_DIR5
	PD14	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_RS
	PD15	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_RW
	PG2	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D2
	PG3	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D3
	PG4	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D4
	PG5	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D5
	PG6	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D6

IP	Pin	Signal	GPIO mode	GPIO pull/up pull	Max	User Label
				down	Speed	
	PG7	GPIO_Output	Output Push Pull	Pull-up *	Medium *	LCD_D7
	PG8	GPIO_Output	Output Push Pull	Pull-up *	Low	LCD_EN
	PA8	GPIO_EXTI8	External Interrupt	Pull-up *	n/a	SD_DETECT
			Mode with Falling			
			edge trigger detection			
	PA11	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	MOTOR_LED
	PA12	GPIO_Output	Output Push Pull	No pull-up and no pull-down	Low	TEST_LED
	PB6	GPIO_Output	Output Push Pull	Pull-up *	High *	DCMI_SCL
	PB7	GPIO_Output	Output Push Pull	Pull-up *	High *	DCMI_SDA

6.2. DMA configuration

DMA request	Stream	Direction	Priority
SDIO_RX	DMA2_Stream3	Peripheral To Memory	Very High *
SDIO_TX	DMA2_Stream6	Memory To Peripheral	Very High *
DCMI	DMA2_Stream1	Peripheral To Memory	Low
USART1_RX	DMA2_Stream2	Peripheral To Memory	Low
USART1_TX	DMA2_Stream7	Memory To Peripheral	Low

SDIO_RX: DMA2_Stream3 DMA request Settings:

Mode: Peripheral Flow Control *

Use fifo: Enable *

FIFO Threshold: Full
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Word *
Memory Data Width: Word

Peripheral Burst Size: 4 Increment *

Memory Burst Size: 4 Increment

SDIO_TX: DMA2_Stream6 DMA request Settings:

Mode: Peripheral Flow Control *

Use fifo: Enable *

FIFO Threshold: Full
Peripheral Increment: Disable
Memory Increment: Enable *
Peripheral Data Width: Word *

Peripheral Burst Size: 4 Increment *

Memory Burst Size: 4 Increment

DCMI: DMA2_Stream1 DMA request Settings:

Mode: Normal
Use fifo: Enable *

FIFO Threshold:

Peripheral Increment:

Memory Increment:

Peripheral Data Width:

Memory Data Width:

Word

Word

Peripheral Burst Size:

Single

Memory Burst Size: 4 Increment *

USART1_RX: DMA2_Stream2 DMA request Settings:

Mode: Normal
Use fifo: Disable
Peripheral Increment: Disable
Memory Increment: Enable *

Peripheral Data Width: Byte Memory Data Width: Byte

USART1_TX: DMA2_Stream7 DMA request Settings:

Mode: Normal
Use fifo: Disable
Peripheral Increment: Disable
Memory Increment: Enable *

Peripheral Data Width: Byte
Memory Data Width: Byte

6.3. NVIC configuration

laterment Table	Caabla	Decemention Deignite	Cook Daile with a		
Interrupt Table	Enable	Preenmption Priority	SubPriority		
Non maskable interrupt	true	0	0		
Hard fault interrupt	true	0	0		
Memory management fault	true	0	0		
Pre-fetch fault, memory access fault	true	0	0		
Undefined instruction or illegal state	true	0	0		
System service call via SWI instruction	true	0	0		
Debug monitor	true	0	0		
Pendable request for system service	true	15	0		
System tick timer	true	15	0		
EXTI line[9:5] interrupts	true	13	0		
TIM1 update interrupt and TIM10 global interrupt	true	0	0		
USART1 global interrupt	true	6	0		
USART2 global interrupt	true	13	0		
TIM8 trigger and commutation interrupts and TIM14 global interrupt	true 5		0		
SDIO global interrupt	true	14	0		
TIM6 global interrupt, DAC1 and DAC2 underrun error interrupts	true 12		0		
DMA2 stream1 global interrupt	true 7		0		
DMA2 stream2 global interrupt	true	8	0		
DMA2 stream3 global interrupt	true	15	0		
DMA2 stream6 global interrupt	true	15	0		
DMA2 stream7 global interrupt	true	7	0		
DCMI global interrupt	true	6	0		
PVD interrupt through EXTI line 16		unused			
Flash global interrupt	unused				
RCC global interrupt	unused				
TIM1 break interrupt and TIM9 global interrupt	unused				
I2C2 event interrupt	unused				
I2C2 error interrupt	unused				
FPU global interrupt		unused			

^{*} User modified value

7. Power Consumption Calculator report

7.1. Microcontroller Selection

Series	STM32F4
Line	STM32F427/437
мси	STM32F437ZITx
Datasheet	024244_Rev10

7.2. Parameter Selection

Temperature	25
Vdd	null

8. Software Project

8.1. Project Settings

Name	Value
Project Name	WiFi_Camera
Project Folder	E:\F2_OSRAM\O06_Private\WiFi_Camera_Prj\WiFi_Camera_Firmware
Toolchain / IDE	EWARM
Firmware Package Name and Version	STM32Cube FW_F4 V1.17.0

8.2. Code Generation Settings

Name	Value
STM32Cube Firmware Library Package	Copy all used libraries into the project folder
Generate peripheral initialization as a pair of '.c/.h' files	No
Backup previously generated files when re-generating	No
Delete previously generated files when not re-generated	Yes
Set all free pins as analog (to optimize the power	No
consumption)	