1. Description

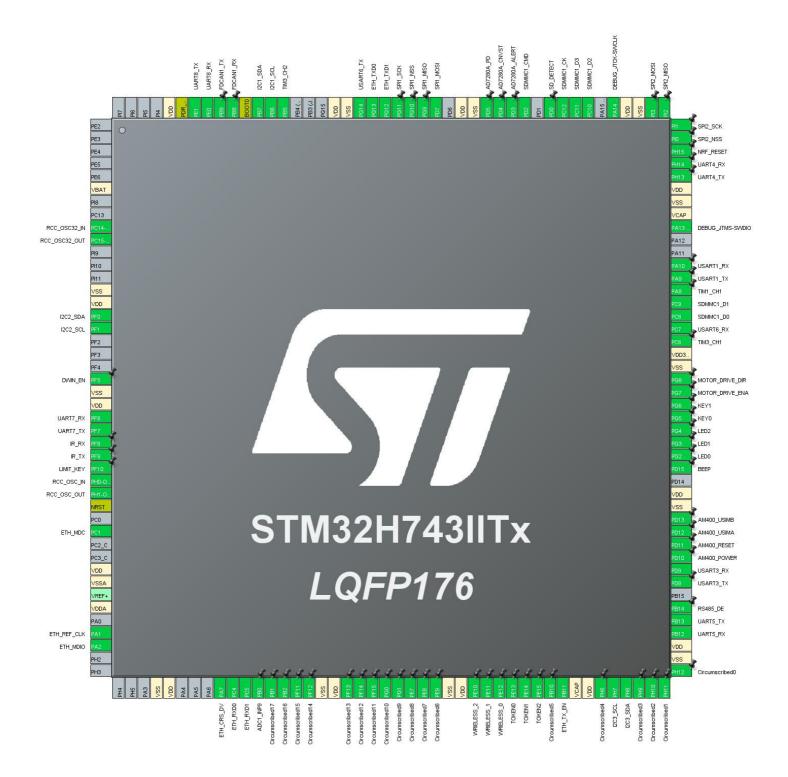
1.1. Project

| Project Name | 00_H743_Core |
|-----------------|-------------------|
| Board Name | custom |
| Generated with: | STM32CubeMX 5.4.0 |
| Date | 01/15/2020 |

1.2. MCU

| MCU Series | STM32H7 |
|----------------|---------------|
| MCU Line | STM32H743/753 |
| MCU name | STM32H743IITx |
| MCU Package | LQFP176 |
| MCU Pin number | 176 |

2. Pinout Configuration



3. Pins Configuration

| Pin Number LQFP176 | Pin Name (function after reset) | Pin Type | Alternate Function(s) | Label | |
|-----------------------|---------------------------------------|----------|--------------------------|-----------------|--|
| 6 | VBAT | Power | | | |
| 9 | PC14-OSC32_IN (OSC32_IN) | I/O | RCC_OSC32_IN | | |
| 10 | PC15-OSC32_OUT (OSC32_OUT) | I/O | RCC_OSC32_OUT | | |
| 14 | VSS | Power | | | |
| 15 | VDD | Power | | | |
| 16 | PF0 | I/O | I2C2_SDA | | |
| 17 | PF1 | I/O | I2C2_SCL | | |
| 21 | PF5 * | I/O | GPIO_Output | DWIN_EN | |
| 22 | VSS | Power | | | |
| 23 | VDD | Power | | | |
| 24 | PF6 | I/O | UART7_RX | | |
| 25 | PF7 | I/O | UART7_TX | | |
| 26 | PF8 * | I/O | GPIO_Input | IR_RX | |
| 27 | PF9 * | I/O | GPIO_Output | IR_TX | |
| 28 | PF10 | I/O | GPIO_EXTI10 | LIMIT_KEY | |
| 29 | PH0-OSC_IN (PH0) | I/O | RCC_OSC_IN | | |
| 30 | PH1-OSC_OUT (PH1) | I/O | RCC_OSC_OUT | | |
| 31 | NRST | Reset | | | |
| 33 | PC1 | I/O | ETH_MDC | | |
| 36 | VDD | Power | | | |
| 37 | VSSA | Power | | | |
| 39 | VDDA | Power | | | |
| 41 | PA1 | I/O | ETH_REF_CLK | | |
| 42 | PA2 | I/O | ETH_MDIO | | |
| 48 | VSS | Power | | | |
| 49 | VDD | Power | | | |
| 53 | PA7 | I/O | ETH_CRS_DV | | |
| 54 | PC4 | I/O | ETH_RXD0 | | |
| 55 | PC5 | I/O | ETH_RXD1 | | |
| 56 | PB0 | I/O | ADC1_INP9 | | |
| 57 | PB1 * | I/O | GPIO_Output | Circumscribed17 | |
| 58 | PB2 * | I/O | GPIO_Output | Circumscribed16 | |
| 59 | PF11 * | I/O | GPIO_Output | Circumscribed15 | |
| 60 | PF12 * | I/O | GPIO_Output | Circumscribed14 | |

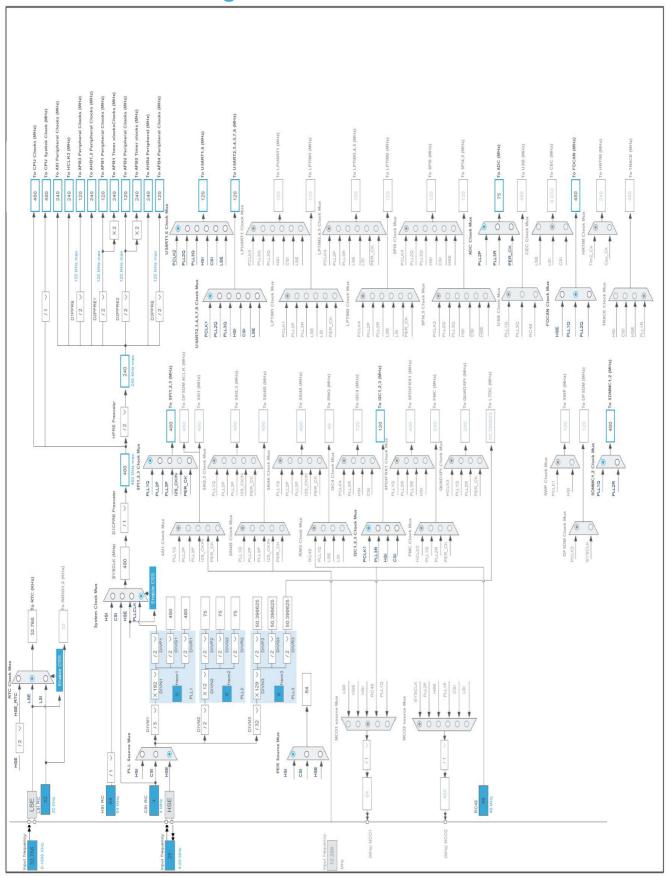
| Pin Number | Pin Name | Pin Type | Alternate | Label |
|------------|-----------------|----------|--------------|------------------|
| LQFP176 | (function after | | Function(s) | |
| | reset) | | | |
| 61 | VSS | Power | | |
| 62 | VDD | Power | | |
| 63 | PF13 * | I/O | GPIO_Output | Circumscribed13 |
| 64 | PF14 * | 1/0 | GPIO_Output | Circumscribed12 |
| 65 | PF15 * | 1/0 | GPIO_Output | Circumscribed11 |
| 66 | PG0 * | 1/0 | GPIO_Output | Circumscribed10 |
| 67 | PG1 * | 1/0 | GPIO_Output | Circumscribed9 |
| 68 | PE7 * | 1/0 | GPIO_Output | Circumscribed8 |
| 69 | PE8 * | 1/0 | GPIO_Output | Circumscribed7 |
| 70 | PE9 * | 1/0 | GPIO_Output | Circumscribed6 |
| 71 | VSS | Power | GF10_Output | Circumscribedo |
| 72 | VDD | Power | | |
| 73 | PE10 * | I/O | GPIO_Output | WRIELESS_2 |
| 74 | PE11 * | I/O | GPIO_Output | WRIELESS_1 |
| 75 | PE12 * | I/O | GPIO_Output | WRIELESS_0 |
| 76 | PE13 * | I/O | GPIO_Output | TOKEN0 |
| 77 | PE14 * | I/O | GPIO_Output | TOKEN1 |
| 78 | PE15 * | I/O | GPIO_Output | TOKEN2 |
| 79 | PB10 * | I/O | GPIO_Output | Circumscribed5 |
| 80 | PB11 | I/O | ETH_TX_EN | Olicumscribeus |
| 81 | VCAP | Power | LIII_IX_LIV | |
| 82 | VDD | Power | | |
| 83 | PH6 * | I/O | GPIO_Output | Circumscribed4 |
| 84 | PH7 | I/O | I2C3_SCL | Olicumscribcu |
| 85 | PH8 | I/O | I2C3_SDA | |
| 86 | PH9 * | I/O | GPIO_Output | Circumscribed3 |
| 87 | PH10 * | I/O | GPIO_Output | Circumscribed2 |
| 88 | PH11 * | 1/0 | GPIO_Output | Circumscribed1 |
| 89 | PH12 * | I/O | GPIO_Output | Circumscribed0 |
| 90 | VSS | Power | 0. 10_0atpat | - Circumsonbodo |
| 91 | VDD | Power | | |
| 92 | PB12 | I/O | UART5_RX | |
| 93 | PB13 | I/O | UART5_TX | |
| 94 | PB14 * | 1/0 | GPIO_Output | RS485_DE |
| 96 | PD8 | I/O | USART3_TX | 1.0.100_DE |
| 97 | PD9 | 1/0 | USART3_RX | |
| 98 | PD10 * | 1/0 | GPIO_Output | AM400_POWER |
| 99 | PD11 * | 1/0 | GPIO_Output | AM400_RESET |
| 100 | PD12 * | 1/0 | GPIO_Output | AM400_KESET |
| 100 | I DIZ | 1/0 | Or 10_Output | TIVI-100_GGIIVIA |

| Pin Number | Pin Name | Pin Type | Alternate | Label |
|------------|-------------------|----------|------------------|-----------------|
| LQFP176 | (function after | | Function(s) | |
| | reset) | | | |
| 101 | PD13 * | I/O | GPIO_Output | AM400_USIMB |
| 102 | VSS | Power | | |
| 103 | VDD | Power | | |
| 105 | PD15 * | I/O | GPIO_Output | BEEP |
| 106 | PG2 * | 1/0 | GPIO_Output | LED0 |
| 107 | PG3 * | I/O | GPIO_Output | LED1 |
| 108 | PG4 * | I/O | GPIO_Output | LED2 |
| 109 | PG5 | I/O | GPIO_EXTI5 | KEY0 |
| 110 | PG6 | I/O | GPIO_EXTI6 | KEY1 |
| 111 | PG7 * | I/O | GPIO_Output | MOTOR_DRIVE_ENA |
| 112 | PG8 * | I/O | GPIO_Output | MOTOR_DRIVE_DIR |
| 113 | VSS | Power | | |
| 114 | VDD33_USB | Power | | |
| 115 | PC6 | I/O | TIM3_CH1 | |
| 116 | PC7 | I/O | USART6_RX | |
| 117 | PC8 | I/O | SDMMC1_D0 | |
| 118 | PC9 | I/O | SDMMC1_D1 | |
| 119 | PA8 | I/O | TIM1_CH1 | |
| 120 | PA9 | I/O | USART1_TX | |
| 121 | PA10 | I/O | USART1_RX | |
| 124 | PA13 (JTMS/SWDIO) | I/O | DEBUG_JTMS-SWDIO | |
| 125 | VCAP | Power | | |
| 126 | VSS | Power | | |
| 127 | VDD | Power | | |
| 128 | PH13 | I/O | UART4_TX | |
| 129 | PH14 | I/O | UART4_RX | |
| 130 | PH15 * | I/O | GPIO_Output | NRF_RESET |
| 131 | PI0 | I/O | SPI2_NSS | |
| 132 | PI1 | I/O | SPI2_SCK | |
| 133 | PI2 | I/O | SPI2_MISO | |
| 134 | PI3 | I/O | SPI2_MOSI | |
| 135 | VSS | Power | | |
| 136 | VDD | Power | | |
| 137 | PA14 (JTCK/SWCLK) | I/O | DEBUG_JTCK-SWCLK | |
| 139 | PC10 | I/O | SDMMC1_D2 | |
| 140 | PC11 | I/O | SDMMC1_D3 | |
| 141 | PC12 | I/O | SDMMC1_CK | |
| 142 | PD0 | I/O | GPIO_EXTI0 | SD_DETECT |
| 144 | PD2 | I/O | SDMMC1_CMD | |
| | | | | |

| Pin Number LQFP176 | Pin Name (function after reset) | Pin Type | Alternate Function(s) | Label |
|-----------------------|---------------------------------------|----------|--------------------------|---------------|
| 145 | PD3 * | I/O | GPIO_Output | AD7280A_ALERT |
| 146 | PD4 * | I/O | GPIO_Output | AD7280A_CNVST |
| 147 | PD5 * | I/O | GPIO_Output | AD7280A_PD |
| 148 | VSS | Power | | |
| 149 | VDD | Power | | |
| 151 | PD7 | I/O | SPI1_MOSI | |
| 152 | PG9 | I/O | SPI1_MISO | |
| 153 | PG10 | I/O | SPI1_NSS | |
| 154 | PG11 | I/O | SPI1_SCK | |
| 155 | PG12 | I/O | ETH_TXD1 | |
| 156 | PG13 | I/O | ETH_TXD0 | |
| 157 | PG14 | I/O | USART6_TX | |
| 158 | VSS | Power | | |
| 159 | VDD | Power | | |
| 163 | PB5 | I/O | TIM3_CH2 | |
| 164 | PB6 | I/O | I2C1_SCL | |
| 165 | PB7 | I/O | I2C1_SDA | |
| 166 | BOOT0 | Boot | | |
| 167 | PB8 | I/O | FDCAN1_RX | |
| 168 | PB9 | I/O | FDCAN1_TX | |
| 169 | PE0 | I/O | UART8_RX | |
| 170 | PE1 | I/O | UART8_TX | |
| 171 | PDR_ON | Reset | | |
| 172 | VDD | Power | | |

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

4. Clock Tree Configuration



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5. Software Project

5.1. Project Settings

| Name | Value | | |
|-----------------------------------|---|--|--|
| Project Name | 00_H743_Core | | |
| Project Folder | D:\03_WorkSpace\03_STM32Cube_HAL\00_H743_Core | | |
| Toolchain / IDE | MDK-ARM V5.27 | | |
| Firmware Package Name and Version | STM32Cube FW_H7 V1.5.0 | | |

5.2. Code Generation Settings

| Name | Value | |
|---|---|--|
| STM32Cube MCU packages and embedded software | Copy all used libraries into the project folder | |
| Generate peripheral initialization as a pair of '.c/.h' files | Yes | |
| 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) | | |

6. Power Consumption Calculator report

6.1. Microcontroller Selection

| Series | STM32H7 |
|-----------|---------------|
| Line | STM32H743/753 |
| мси | STM32H743IITx |
| Datasheet | DS12110_Rev5 |

6.2. Parameter Selection

| Temperature | 25 |
|-------------|-----|
| Vdd | 3.0 |

7. IPs and Middleware Configuration 7.1. ADC1

mode: IN9

7.1.1. Parameter Settings:

ADCs_Common_Settings:

Mode Independent mode

ADC_Settings:

Clock Prescaler Asynchronous clock mode divided by 1

Resolution ADC 16-bit resolution

Scan Conversion Mode Disabled
Continuous Conversion Mode Discontinuous Conversion Mode Disabled

End Of Conversion Selection End of single conversion

Overrun behaviour Overrun data preserved

Conversion Data Management Mode Regular Conversion data stored in DR register only

Low Power Auto Wait Disabled

ADC_Regular_ConversionMode:

Enable Regular Conversions Enable

Left Bit Shift No bit shift

Enable Regular Oversampling Disable

Number Of Conversion 1

External Trigger Conversion Source Regular Conversion launched by software

External Trigger Conversion Edge None Rank 1

Channel Channel 9
Sampling Time 1.5 Cycles
Offset Number No offset

ADC_Injected_ConversionMode:

Enable Injected Conversions Disable

Analog Watchdog 1:

Enable Analog WatchDog1 Mode false

Analog Watchdog 2:

Enable Analog WatchDog2 Mode false

Analog Watchdog 3:

Enable Analog WatchDog3 Mode false

7.2. DEBUG

Debug: Serial Wire

7.3. ETH

Mode: RMII

7.3.1. Parameter Settings:

General: Ethernet Configuration:

Warning The ETH can work only when RAM is pointing at 0x24000000

Note PHY Driver must be configured from the LwIP 'Platform Settings' top right tab

Ethernet MAC Address 00:80:E1:00:00:00

Tx Descriptor Length 4

First Tx Descriptor Address 0x30040060 *

Rx Descriptor Length

First Rx Descriptor Address 0x30040000 *
Rx Buffers Address 0x30040200 *

Rx Buffers Length 1524

7.4. FDCAN1

Mode: Classic Master

7.4.1. Parameter Settings:

Basic Parameters:

Frame Format Classic mode Mode Normal mode Auto Retransmission Disable Transmit Pause Disable Protocol Exception Disable Nominal Prescaler Nominal Sync Jump Width Nominal Time Seg1 2 Nominal Time Seg2 2 Data Prescaler Data Sync Jump Width Data Time Seg1 Data Time Seg2 Message Ram Offset 0 Std Filters Nbr 0

Ext Filters Nbr 0 Rx Fifo0 Elmts Nbr 0

Rx Fifo0 Elmt Size 8 bytes data field

Rx Fifo1 Elmts Nbr

Rx Fifo1 Elmt Size 8 bytes data field

Rx Buffers Nbr 0

Rx Buffer Size 8 bytes data field

Tx Events Nbr 0 Tx Buffers Nbr 0 Tx Fifo Queue Elmts Nbr 0

Tx Fifo Queue Mode FIFO mode Tx Elmt Size 8 bytes data field

7.5. GPIO

7.6. I2C1

12C: 12C

7.6.1. Parameter Settings:

Timing configuration:

I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz) 100 Rise Time (ns) 0 Fall Time (ns) 0 Coefficient of Digital Filter 0

Analog Filter Enabled

Timing 0x307075B1 *

Slave Features:

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

7.7. I2C2

12C: 12C

7.7.1. Parameter Settings:

Timing configuration:

I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz)100Rise Time (ns)0Fall Time (ns)0Coefficient of Digital Filter0

Analog Filter Enabled

Timing 0x307075B1 *

Slave Features:

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

7.8. I2C3

12C: 12C

7.8.1. Parameter Settings:

Timing configuration:

I2C Speed Mode Standard Mode

I2C Speed Frequency (KHz)100Rise Time (ns)0Fall Time (ns)0Coefficient of Digital Filter0

Analog Filter Enabled

Timing 0x307075B1 *

Slave Features:

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

7.9. RCC

High Speed Clock (HSE): Crystal/Ceramic Resonator Low Speed Clock (LSE): BYPASS Clock Source

7.9.1. Parameter Settings:

SupplySource PWR_LDO_SUPPLY

RCC Parameters:

TIM Prescaler Selection Disabled
HSE Startup Timout Value (ms) 100
LSE Startup Timout Value (ms) 5000
CSI Calibration Value 16
HSI Calibration Value 32

System Parameters:

VDD voltage (V) 3.3

Flash Latency(WS) 4 WS (5 CPU cycle)

Power Parameters:

Power Regulator Voltage Scale Power Regulator Voltage Scale 0

PLL range Parameters:

PLL1 clock Input range

PLL2 input frequency range

Between 8 and 16 MHz

PLL1 clock Output range

Wide VCO range

PLL2 clock Output range

MEDIUM VCO range

7.10. RTC

mode: Activate Clock Source 7.10.1. Parameter Settings:

General:

Hour Format Hourformat 24

Asynchronous Predivider value 127 Synchronous Predivider value 255

7.11. SDMMC1

Mode: SD 4 bits Wide bus 7.11.1. Parameter Settings:

Common SDMMC parameters:

does the board use µSD transceiver Enabled

SDMMC parameters:

Clock transition on which the bit capture is made Rising transition

SDMMC Clock output enable when the bus is idle

Disable the power save for the clock

SDMMC hardware flow control

The hardware control flow is disabled

SDMMC clock divide factor 0

7.12. SPI1

Mode: Full-Duplex Master

Hardware NSS Signal: Hardware NSS Output Signal

7.12.1. Parameter Settings:

Basic Parameters:

Frame Format Motorola

Data Size 8 Bits *

First Bit MSB First

Clock Parameters:

Prescaler (for Baud Rate) 32 *

Baud Rate 15.0 MBits/s *

Clock Polarity (CPOL) Low
Clock Phase (CPHA) 1 Edge

Advanced Parameters:

CRC Calculation Disabled

NSSP Mode Enabled

NSS Signal Type Output Hardware
Fifo Threshold Fifo Threshold 01 Data

Tx Crc Initialization PatternAll Zero PatternRx Crc Initialization PatternAll Zero PatternNss PolarityNss Polarity Low

Master Ss Idleness00 CycleMaster Inter Data Idleness00 CycleMaster Receiver Auto SuspDisable

Master Keep Io State Disable

IO Swap Disabled

7.13. SPI2

Mode: Full-Duplex Master

Hardware NSS Signal: Hardware NSS Output Signal

7.13.1. Parameter Settings:

Basic Parameters:

Frame Format Motorola
Data Size 4 Bits
First Bit MSB First

Clock Parameters:

Prescaler (for Baud Rate) 128 *

Baud Rate 3.75 MBits/s *

Clock Polarity (CPOL) Low
Clock Phase (CPHA) 1 Edge

Advanced Parameters:

CRC Calculation Disabled
NSSP Mode Enabled

NSS Signal Type Output Hardware
Fifo Threshold Fifo Threshold 01 Data

Tx Crc Initialization Pattern

Rx Crc Initialization Pattern

All Zero Pattern

All Zero Pattern

Nss Polarity

Nss Polarity Low

Master Ss Idleness00 CycleMaster Inter Data Idleness00 CycleMaster Receiver Auto SuspDisable

Master Keep Io State Disable

IO Swap Disabled

7.14. SYS

Timebase Source: SysTick

7.15. TIM1

Channel1: PWM Generation CH1

7.15.1. Parameter Settings:

Counter Settings:

Prescaler (PSC - 16 bits value) 0

Counter Mode Up

Counter Period (AutoReload Register - 16 bits value) 0

Internal Clock Division (CKD)

No Division

Repetition Counter (RCR - 16 bits value) 0
auto-reload preload Disable

Trigger Output (TRGO) Parameters:

Master/Slave Mode (MSM bit) Disable (Trigger input effect not delayed)

Trigger Event Selection TRGO Reset (UG bit from TIMx_EGR)

Trigger Event Selection TRGO2 Reset (UG bit from TIMx_EGR)

Break And Dead Time management - BRK Configuration:

BRK State Disable
BRK Polarity High
BRK Filter (4 bits value) 0

BRK Sources Configuration

Digital Input
 COMP1
 COMP2
 Disable
 DFSDM
 Disable

Break And Dead Time management - BRK2 Configuration:

BRK2 State Disable
BRK2 Polarity High
BRK2 Filter (4 bits value) 0

BRK2 Sources Configuration

Digital Input
 COMP1
 Disable
 COMP2
 DFSDM
 Disable

Break And Dead Time management - Output Configuration:

Automatic Output State Disable
Off State Selection for Run Mode (OSSR) Disable
Off State Selection for Idle Mode (OSSI) Disable
Lock Configuration Off

Clear Input:

Clear Input Source Disable

PWM Generation Channel 1:

Mode PWM mode 1

Pulse (16 bits value) 0

Output compare preload Enable
Fast Mode Disable
CH Polarity High
CH Idle State Reset

7.16. TIM3

Combined Channels: Encoder Mode

7.16.1. Parameter Settings:

| Counter Settings: | |
|---|--|
| Prescaler (PSC - 16 bits value) | 0 |
| Counter Mode | Up |
| Counter Period (AutoReload Register - 16 bits value) | 0 |
| Internal Clock Division (CKD) | No Division |
| auto-reload preload | Disable |
| Trigger Output (TRGO) Parameters: | |
| Master/Slave Mode (MSM bit) | Disable (Trigger input effect not delayed) |
| Trigger Event Selection TRGO | Reset (UG bit from TIMx_EGR) |
| Encoder: | |
| Encoder Mode | Encoder Mode TI1 |
| Parameters for Channel 1 | |
| Polarity | Rising Edge |
| IC Selection | Direct |
| Prescaler Division Ratio | No division |
| Input Filter | 0 |
| Parameters for Channel 2 | |
| Polarity | Rising Edge |
| IC Selection | Direct |
| Prescaler Division Ratio | No division |
| Input Filter | 0 |
| | |

7.17. UART4

Mode: Asynchronous

7.17.1. 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
Single Sample Disable
ClockPrescaler clock /1

Fifo Mode FIFO mode disable

Txfifo Threshold 1 eighth full configuration

Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Disable **RX Pin Active Level Inversion** Disable Disable **Data Inversion** Disable TX and RX Pins Swapping Enable Overrun DMA on RX Error Enable MSB First Disable

7.18. UART5

Mode: Asynchronous

7.18.1. 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
Single Sample Disable
ClockPrescaler clock /1

Fifo Mode FIFO mode disable

Txfifo Threshold 1 eighth full configuration

Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable
TX Pin Active Level Inversion Disable
RX Pin Active Level Inversion Disable
Data Inversion Disable
TX and RX Pins Swapping Disable

Overrun Enable
DMA on RX Error Enable
MSB First Disable

7.19. UART7

Mode: Asynchronous

7.19.1. 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
Single Sample Disable
ClockPrescaler clock /1

Fifo Mode FIFO mode disable

Txfifo Threshold 1 eighth full configuration

Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Disable **RX Pin Active Level Inversion** Disable Disable **Data Inversion** TX and RX Pins Swapping Disable Overrun Enable DMA on RX Error Enable MSB First Disable

7.20. UART8

Mode: Asynchronous

7.20.1. 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
Single Sample Disable
ClockPrescaler clock /1

Fifo Mode FIFO mode disable

Txfifo Threshold 1 eighth full configuration

Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable TX Pin Active Level Inversion Disable **RX Pin Active Level Inversion** Disable Data Inversion Disable Disable TX and RX Pins Swapping Overrun Enable DMA on RX Error Enable MSB First Disable

7.21. USART1

Mode: Asynchronous

7.21.1. 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
Single Sample Disable
ClockPrescaler clock /1
Fifo Mode Disable

Txfifo Threshold 1 eighth full configuration

Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable

TX Pin Active Level Inversion

RX Pin Active Level Inversion

Disable

Data Inversion

Disable

TX and RX Pins Swapping

Overrun

Enable

DMA on RX Error

MSB First

Disable

7.22. USART3

Mode: Asynchronous

7.22.1. 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
Single Sample Disable
ClockPrescaler clock /1
Fifo Mode Disable

Txfifo Threshold 1 eighth full configuration
Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable Disable TX Pin Active Level Inversion **RX Pin Active Level Inversion** Disable Data Inversion Disable Disable TX and RX Pins Swapping Overrun Enable DMA on RX Error Enable MSB First Disable

7.23. USART6

Mode: Asynchronous

7.23.1. 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
Single Sample Disable
ClockPrescaler clock /1
Fifo Mode Disable

Txfifo Threshold 1 eighth full configuration Rxfifo Threshold 1 eighth full configuration

Advanced Features:

Auto Baudrate Disable
TX Pin Active Level Inversion Disable
RX Pin Active Level Inversion Disable
Data Inversion Disable
TX and RX Pins Swapping Disable
Overrun Enable
DMA on RX Error Enable
MSB First Disable

* User modified value

8. System Configuration

8.1. GPIO configuration

| IP | Pin | Signal | GPIO mode | GPIO pull/up pull down | Max Speed | User Label |
|--------|---------------------------------|----------------------|----------------------------------|-----------------------------|--------------|------------|
| ADC1 | PB0 | ADC1_INP9 | Analog mode | No pull-up and no pull-down | n/a | |
| DEBUG | PA13 (JTMS/SWDI O) | DEBUG_JTMS- SWDIO | n/a | n/a | n/a | |
| | PA14 (JTCK/SWC LK) | DEBUG_JTCK- SWCLK | n/a | n/a | n/a | |
| ETH | PC1 | ETH_MDC | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PA1 | ETH_REF_CLK | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PA2 | ETH_MDIO | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PA7 | ETH_CRS_DV | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PC4 | ETH_RXD0 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PC5 | ETH_RXD1 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PB11 | ETH_TX_EN | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG12 | ETH_TXD1 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG13 | ETH_TXD0 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| FDCAN1 | PB8 | FDCAN1_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PB9 | FDCAN1_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| I2C1 | PB6 | I2C1_SCL | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| | PB7 | I2C1_SDA | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| I2C2 | PF0 | I2C2_SDA | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| | PF1 | I2C2_SCL | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| I2C3 | PH7 | I2C3_SCL | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| | PH8 | I2C3_SDA | Alternate Function Open Drain | No pull-up and no pull-down | Low | |
| RCC | PC14- OSC32_IN (OSC32_IN) | RCC_OSC32_IN | n/a | n/a | n/a | |
| | PC15- OSC32_OU T | RCC_OSC32_O UT | n/a | n/a | n/a | |
| | PH0- OSC_IN (PH0) | RCC_OSC_IN | n/a | n/a | n/a | |

| IP | Pin | Signal | GPIO mode | GPIO pull/up pull down | Max Speed | User Label |
|--------|--------------------------|-------------|--|-----------------------------|--------------|-----------------|
| | PH1- OSC_OUT (PH1) | RCC_OSC_OUT | n/a | n/a | n/a | |
| SDMMC1 | PC8 | SDMMC1_D0 | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| | PC9 | SDMMC1_D1 | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| | PC10 | SDMMC1_D2 | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| | PC11 | SDMMC1_D3 | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| | PC12 | SDMMC1_CK | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| | PD2 | SDMMC1_CMD | Alternate Function Push Pull | No pull-up and no pull-down | Very High | |
| SPI1 | PD7 | SPI1_MOSI | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG9 | SPI1_MISO | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG10 | SPI1_NSS | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG11 | SPI1_SCK | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| SPI2 | PI0 | SPI2_NSS | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PI1 | SPI2_SCK | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PI2 | SPI2_MISO | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PI3 | SPI2_MOSI | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| TIM1 | PA8 | TIM1_CH1 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| TIM3 | PC6 | TIM3_CH1 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PB5 | TIM3_CH2 | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| UART4 | PH13 | UART4_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PH14 | UART4_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| UART5 | PB12 | UART5_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PB13 | UART5_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| UART7 | PF6 | UART7_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PF7 | UART7_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| UART8 | PE0 | UART8_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PE1 | UART8_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| USART1 | PA9 | USART1_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PA10 | USART1_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| USART3 | PD8 | USART3_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PD9 | USART3_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| USART6 | PC7 | USART6_RX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| | PG14 | USART6_TX | Alternate Function Push Pull | No pull-up and no pull-down | Low | |
| GPIO | PF5 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | DWIN_EN |
| | PF8 | GPIO_Input | Input mode | No pull-up and no pull-down | n/a | IR_RX |
| | PF9 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | IR_TX |
| | PF10 | GPIO_EXTI10 | External Interrupt Mode with Rising edge trigger detection | No pull-up and no pull-down | n/a | LIMIT_KEY |
| | PB1 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | Circumscribed17 |
| | PB2 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | Circumscribed16 |

| PF11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed15 PF12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed14 PF13 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed14 PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed12 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PF00 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PF01 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed19 PF1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF2 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF2 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF2 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF2 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PF1 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PF11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PF13 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PF16 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PF19 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PF19 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PF19 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PF10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PF11 GPIO_Output Output Push Pull No pull-up and no pull-down |
|--|
| PF12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed14 PF13 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed13 PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed12 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PG0 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed10 PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE16 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE17 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Ci |
| PF13 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed13 PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed12 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PG0 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed91 PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low |
| PF14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed12 PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PG0 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed91 PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circums |
| PF15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed11 PG0 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed90 PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed90 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed60 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed60 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE16 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH16 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH17 GPIO_Output Output Push Pull No pull-up and no pull-down Low Ci |
| PG0 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed10 PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE16 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH16 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_PO |
| PG1 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed9 PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed7 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE16 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH16 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH17 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH19 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PE7 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed8 PE8 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed7 PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET |
| PE9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET |
| PE10 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_2 PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PB15 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PB16 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PB17 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed6 PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PE11 GPIO_Output Output Push Pull No pull-up and no pull-down Low WRIELESS_1 PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET |
| PE12 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER |
| PE13 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN0 PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET |
| PE14 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN1 PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PE15 GPIO_Output Output Push Pull No pull-up and no pull-down Low TOKEN2 PB10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed5 PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET |
| PH6 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed4 PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PH9 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed3 PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PH10 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed2 PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PH11 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed1 PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PH12 GPIO_Output Output Push Pull No pull-up and no pull-down Low Circumscribed0 PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PB14 GPIO_Output Output Push Pull No pull-up and no pull-down Low RS485_DE PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PD10 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_POWER PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PD11 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_RESET PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| PD12 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMA |
| |
| PD13 GPIO_Output Output Push Pull No pull-up and no pull-down Low AM400_USIMB |
| |
| PD15 GPIO_Output Output Push Pull No pull-up and no pull-down Low BEEP |
| PG2 GPIO_Output Output Push Pull No pull-up and no pull-down Low LED0 |
| PG3 GPIO_Output Output Push Pull No pull-up and no pull-down Low LED1 |
| PG4 GPIO_Output Output Push Pull No pull-up and no pull-down Low LED2 |
| PG5 GPIO_EXTI5 External Interrupt Mode with No pull-up and no pull-down n/a KEY0 Rising edge trigger detection |
| PG6 GPIO_EXTI6 External Interrupt Mode with No pull-up and no pull-down n/a KEY1 Rising edge trigger detection |
| PG7 GPIO_Output Output Push Pull No pull-up and no pull-down Low MOTOR_DRIVE_Ef |
| PG8 GPIO_Output Output Push Pull No pull-up and no pull-down Low MOTOR_DRIVE_D |
| PH15 GPIO_Output Output Push Pull No pull-up and no pull-down Low NRF_RESET |
| PD0 GPIO_EXTI0 External Interrupt Mode with No pull-up and no pull-down n/a SD_DETECT Rising edge trigger detection |
| PD3 GPIO_Output Output Push Pull No pull-up and no pull-down Low AD7280A_ALERT |

| IP | Pin | Signal | GPIO mode | GPIO pull/up pull down | Max Speed | User Label |
|----|-----|-------------|------------------|-----------------------------|--------------|---------------|
| | PD4 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | AD7280A_CNVST |
| | PD5 | GPIO_Output | Output Push Pull | No pull-up and no pull-down | Low | AD7280A_PD |

8.2. DMA configuration

nothing configured in DMA service

8.3. BDMA configuration

nothing configured in DMA service

8.4. MDMA configuration

nothing configured in DMA service

8.5. NVIC configuration

| 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 | 0 | 0 | | |
| System tick timer | true | 0 | 0 | | |
| PVD and AVD interrupts through EXTI line 16 | unused | | | | |
| Flash global interrupt | unused | | | | |
| RCC global interrupt | unused | | | | |
| EXTI line0 interrupt | | unused | | | |
| ADC1 and ADC2 global interrupts | unused | | | | |
| FDCAN1 interrupt 0 | unused | | | | |
| FDCAN1 interrupt 1 | unused | | | | |
| EXTI line[9:5] interrupts | unused | | | | |
| TIM1 break interrupt | unused | | | | |
| TIM1 update interrupt | unused | | | | |
| TIM1 trigger and commutation interrupts | unused | | | | |
| TIM1 capture compare interrupt | unused | | | | |
| TIM3 global interrupt | unused | | | | |
| I2C1 event interrupt | unused | | | | |
| I2C1 error interrupt | unused | | | | |
| I2C2 event interrupt | unused | | | | |
| I2C2 error interrupt | unused | | | | |
| SPI1 global interrupt | unused | | | | |
| SPI2 global interrupt | unused | | | | |
| USART1 global interrupt | | unused | | | |
| USART3 global interrupt | | unused | | | |
| EXTI line[15:10] interrupts | unused | | | | |
| SDMMC1 global interrupt | unused | | | | |
| UART4 global interrupt | unused | | | | |
| UART5 global interrupt | unused | | | | |
| Ethernet global interrupt | unused | | | | |
| Ethernet wake-up interrupt through EXTI line 86 | unused | | | | |
| FDCAN calibration unit interrupt | unused | | | | |
| USART6 global interrupt | unused | | | | |
| I2C3 event interrupt | | unused | | | |

| Interrupt Table | Enable | Preenmption Priority | SubPriority |
|------------------------|--------|----------------------|-------------|
| I2C3 error interrupt | unused | | |
| FPU global interrupt | unused | | |
| UART7 global interrupt | unused | | |
| UART8 global interrupt | unused | | |
| HSEM1 global interrupt | | unused | |

^{*} User modified value

9. Software Pack Report