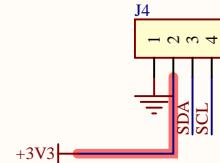
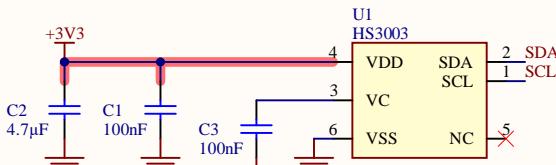


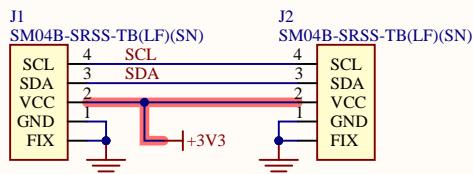
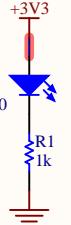
A



B



I2C ADDRESS 0x44

I2C CONNECTORS**TEST POINTS
BOTTOM VIEW****POWER LED**Fiducial_1
Fiducial mark 1mmFiducial_2
Fiducial mark 1mmFiducial_3
Fiducial mark 1mm

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Title: TOP

ID: ABX00103

Version: V0.3

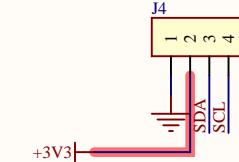
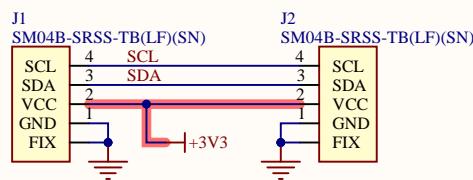
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Sheet 1 of 1

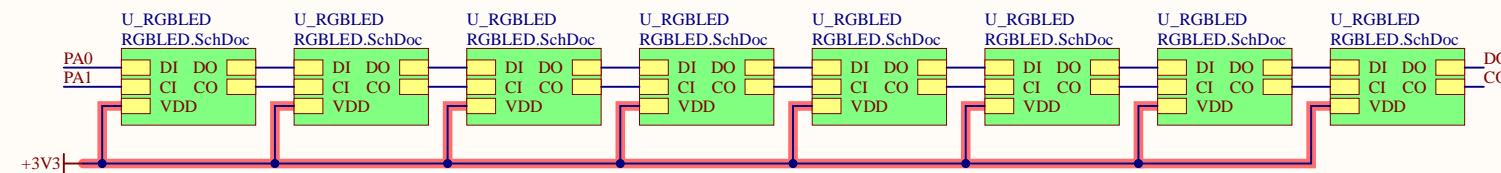
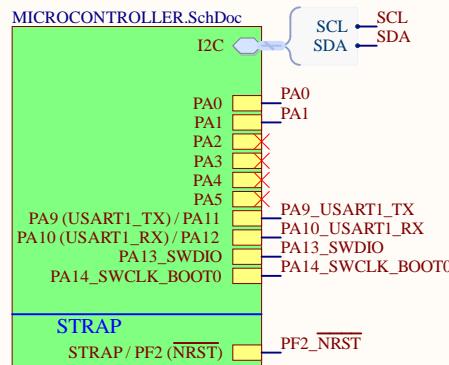
File: TOP.SchDoc



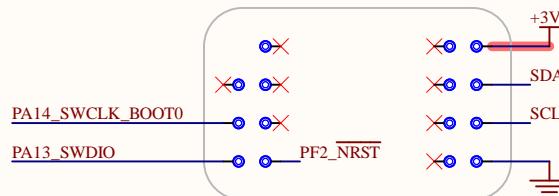
I2C CONNECTORS



MICROCONTROLLER



TEST POINTS BOTTOM VIEW



POWER LED



Fiducial_1
Fiducial mark 1mm

Fiducial_2
Fiducial mark 1mm

Fiducial_3
Fiducial mark 1mm

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ID: ABX00109

Version: V0.3

Date: 27/06/2024 Time: 16:25:11

Sheet 1 of 3

File: TOP.SchDoc



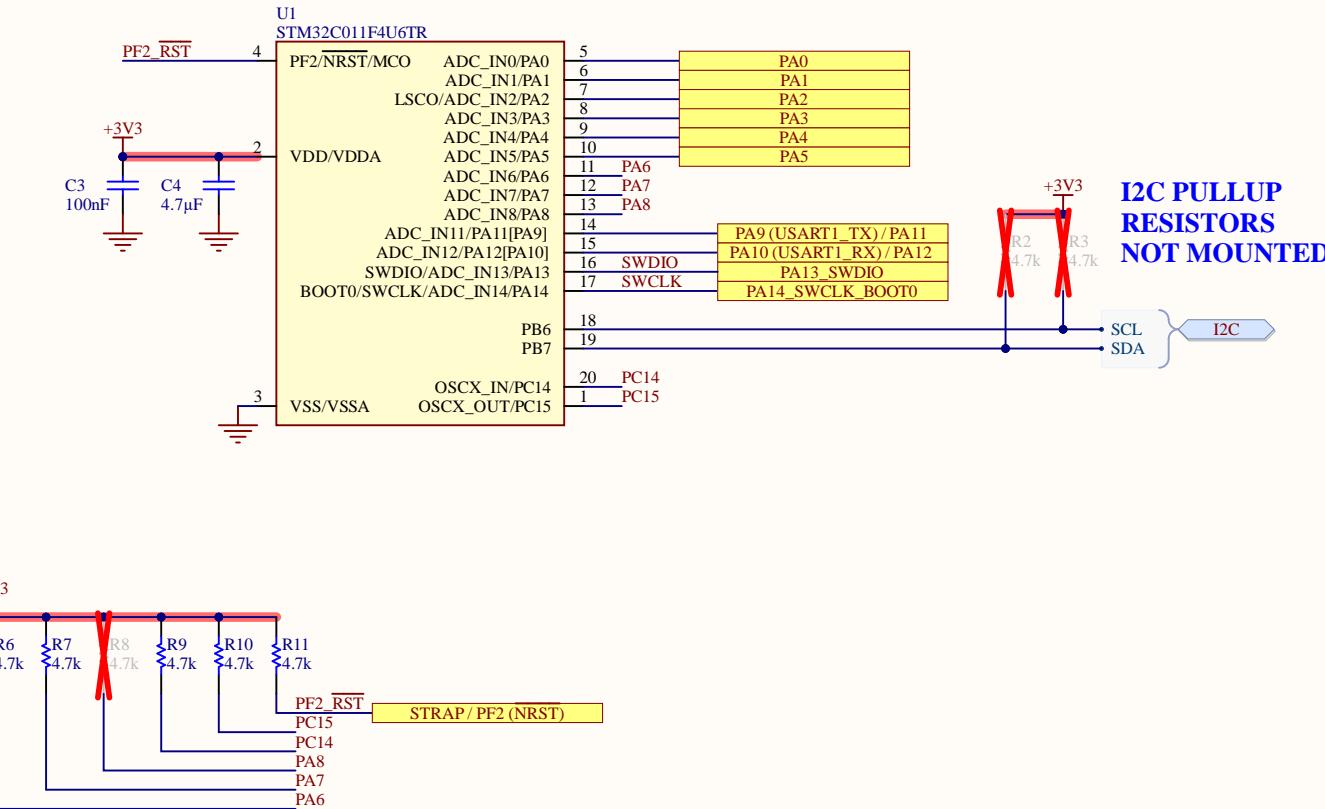


Table 11. Terms and symbols used in Table 12

Column	Symbol	Definition
Pin name		Terminal name corresponds to its by-default function at reset, unless otherwise specified in parenthesis beneath the pin name
Pin type	S	Supply pin
	I	Input only pin
	I/O	Input / output pin
	FT	5 V tolerant I/O
	RST	Bidirectional reset pin with embedded weak pull-up resistor
I/O structure	Options for FT I/Os	
	_f	I/O, Fm+ capable
	_a	I/O, with analog switch function

Table 12. Pin assignment and description

Pin	Pin name (function upon reset)	Pin type	IO structure	Note	Alternate functions	Additional functions
20	PC14-OSCX_IN/PC14	I/O	FT	-	USART1_TX, TIM1_ETR, TIM1_IEN, IR_OUT, USART1_RTS_DE, CK, TIM17_CH1, TIM3_CH2, I2C1_SDA, EVENTOUT	OSCX_IN
1	PC15-OSCX_OUT/PC15	I/O	FT	-	OSC32_EN, OSC_EN, TIM1_ETR, TIM3_CH3	OSCX_OUT
2	VDD/VDDA	S	-	-	-	-
3	VSS/VSSA	S	-	-	-	-
4	PF2-NRST	I/O	-	-	MCO, TIM1_CH4	NRST
5	PA0	I/O	FT	-	USART2_CTS, TIM16_CH1, USART1_RX, TIM1_CH1	ADC_IN0, WKUP1
6	PA1	I/O	FT	-	SP1, SCK/I2S1_CK, USART2_RTS_DE, CK, TIM17_CH1, USART1_RX, TIM1_CH2, I2C1_SMB, EVENTOUT	ADC_IN1
7	PA2	I/O	FT	-	SP1, MOS/I2S1_SD, USART2_TX, TIM16_CH1N, TIM3_ETR, TIM1_CH3	ADC_IN2, WKUP4LSCO
8	PA3	I/O	FT	-	USART2_RX, TIM1_CHH, TIM1_CH4, EVENTOUT	ADC_IN3
9	PA4	I/O	FT	-	SP1_NSS/I2S1_WS, USART2_RX, TIM1_CH2N, TIM14_CH1, TIM17_CH1N, EVENTOUT	ADC_IN4, RTC_TS, RTC_OUT1, WKUP2
10	PA5	I/O	FT	-	SP1_SCK/I2S1_CK, USART2_RX, TIM1_CH3N, TIM1_CH1, EVENTOUT	ADC_IN5
11	PA6	I/O	FT	-	SP1_MISO/I2S1_MCK, TIM3_CH1, TIM1_BKIN, TIM16_CH1	ADC_IN6
12	PA7	I/O	FT	-	SP1_MOS/I2S1_SD, TIM3_CH2, TIM1_CHN, TIM14_CH1, TIM17_CH1	ADC_IN7
13	PA8	I/O	FT	-	MCO, USART2_TX, TIM1_CH1, EVENTOUT, SP1_NSS/I2S1_WS, TIM1_CH2N, TIM1_CH3N, TIM3_CH3, TIM3_CH4, TIM14_CH1, USART1_RX, MC02	ADC_IN8
-	PA9	I/O	FT	(1)	MCO, USART1_TX, TIM1_CH2, TIM3_ETR, I2C1_SCL, EVENTOUT	-
-	PA10	I/O	FT	(1)	USART1_RX, TIM1_CH3, MC02, TIM17_BKIN, I2C1_SDA, EVENTOUT	-
14	PA11 [PA9]	I/O	FT	(1)	SP1_MISO/I2S1_MCK, USART1_CTS, TIM1_CH4, TIM1_BKIN2	ADC_IN11
15	PA12 [PA10]	I/O	FT	(1)	SP1_MOS/I2S1_SD, USART1_RTS_DE, CK, TIM1_ETR, I2S_CKIN	ADC_IN12
16	PA13	I/O	FT	(2)	SWCLK_USART2_TX, EVENTOUT, USART2_RX, USART2_RTS_DE, CK, EVENTOUT	ADC_IN13
17	PA14-BOOT0	I/O	FT	(2)	SP1_NSS/I2S1_WS, USART2_RX, TIM1_CH1, MC02, USART1_RTS_DE, CK	ADC_IN14, BOOT0
18	PB6	I/O	FT	-	USART1_TX, TIM1_CH3, TIM16_CH1N, TIM3_CH3, USART1_RTS_DE, CK, USART1_CTS, I2C1_SCL, I2C1_SMB, SP1_MOS/I2S1_SD, SP1_SCK/I2S1_CK, USART1_RX, TIM1_CH2, TIM3_CH1, TIM3_CH2, TIM16_BKIN, TIM17_BKIN	WKUP3
19	PB7	I/O	FT	-	USART1_RX, TIM1_CH4, TIM17_CH1N, TIM3_CH4, I2C1_SDA, EVENTOUT, USART2_CTS, TIM16_CH1, TIM3_CH1, I2C1_SCL	RTC_REFIN

1. Pins PA9 and PA10 can be remapped in place of pins PA11 and PA12 (default mapping), using SYSCFG_CFRG1 register.

2. Upon reset, these pins are configured as SWD alternate functions, and the internal pull-up on PA13 pin and the internal pull-down on PA14 pin are activated.

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Title: *

ID: ABX00109

Version: V0.3



Date: 27/06/2024 Time: 16:25:12

Sheet 2 of 3

File: MICROCONTROLLER.SchDoc

Author: Silvio Navaretti

RevAuthor: Silvio Navaretti

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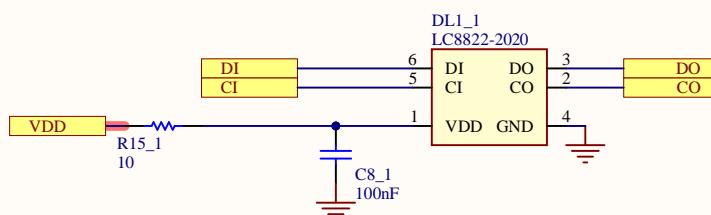
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Title: *			
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Date: 27/06/2024	Time: 16:25:12	Sheet 3 of 3	
File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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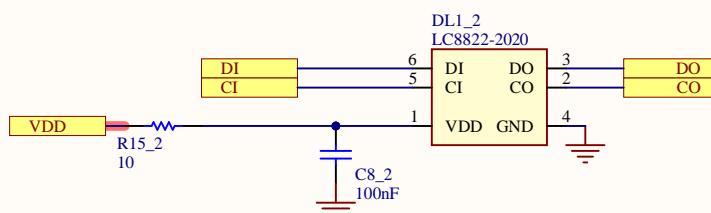
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Title: *			
ID: ABX00109	Version: V0.3	CC BY SA	ARDUINO
Date: 27/06/2024	Time: 16:25:13	Sheet 3 of 3	
File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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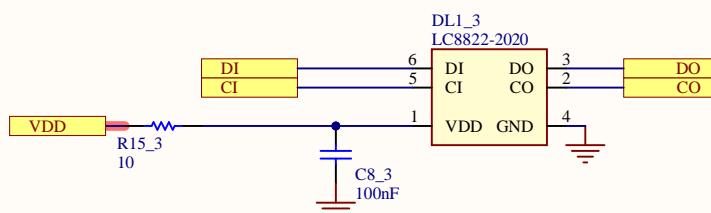
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Date: 27/06/2024	Time: 16:25:13	Sheet 3 of 3	
File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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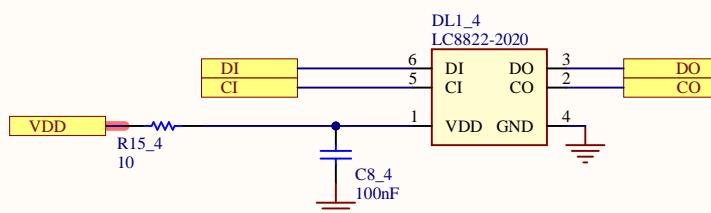
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File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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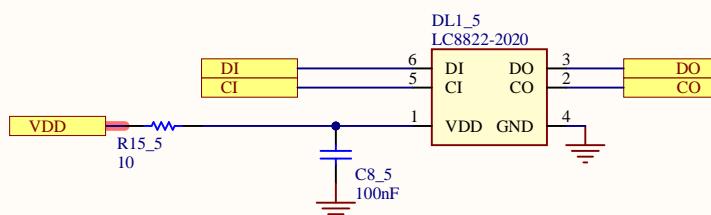
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File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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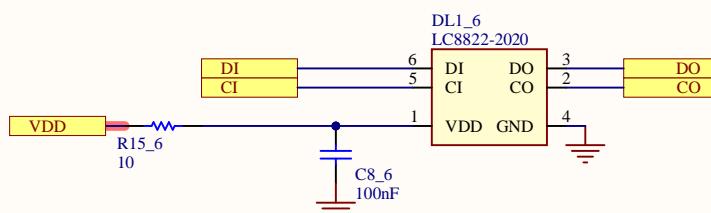
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File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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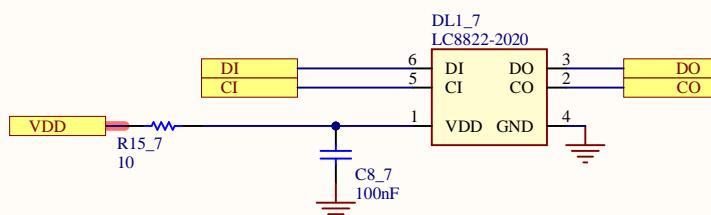
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File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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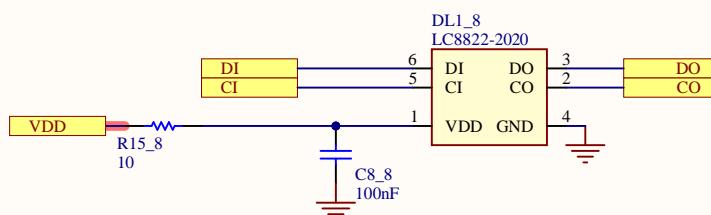
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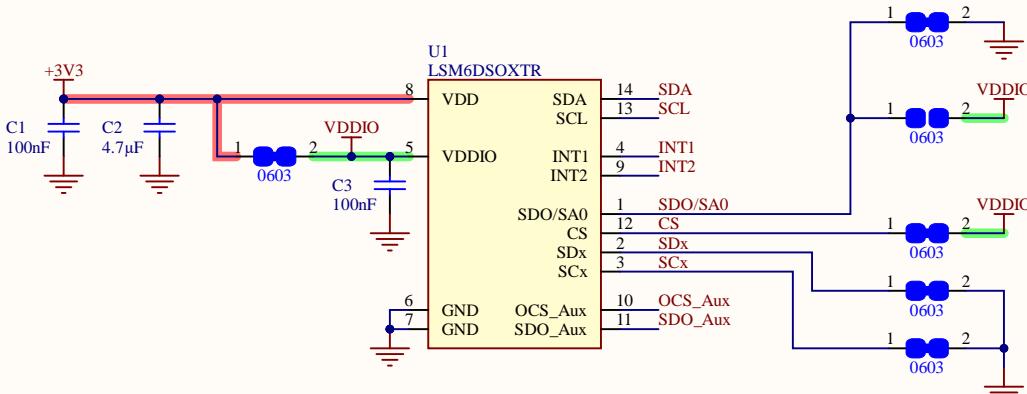
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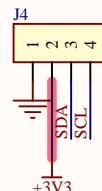
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File: RGBLED.SchDoc	Author: Silvio Navaretti	RevAuthor: Silvio Navaretti	

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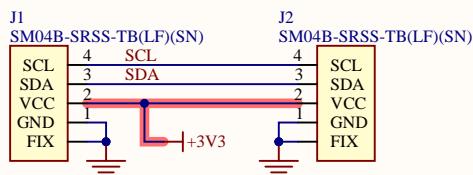


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I2C CONNECTORS

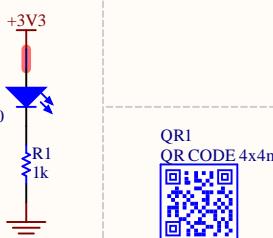


C

TEST POINTS BOTTOM VIEW



POWER LED



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Title: TOP

ID: ABX00101

Version: V0.3



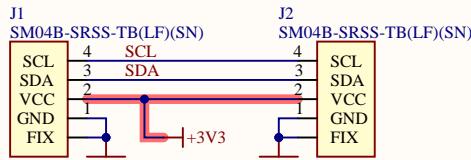
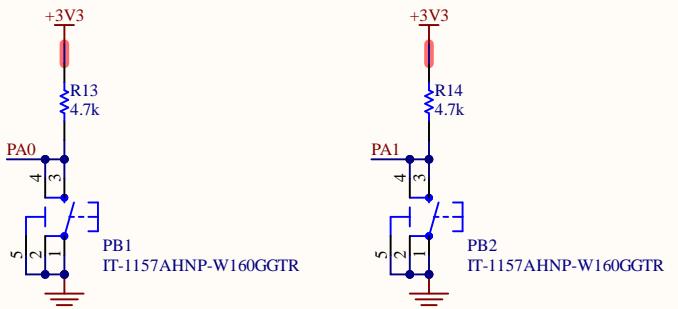
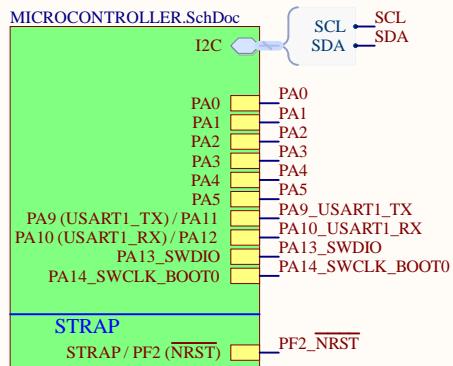
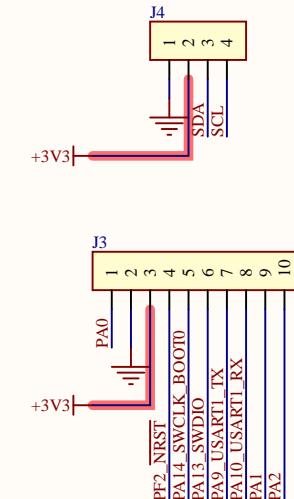
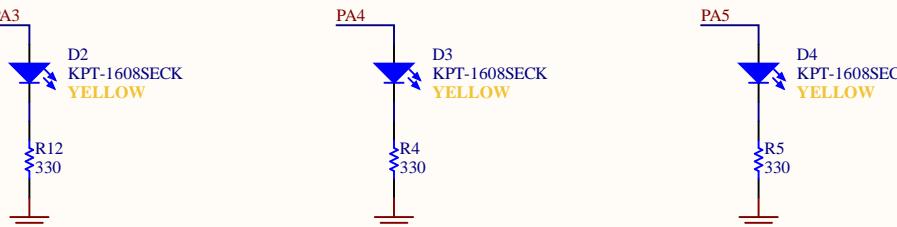
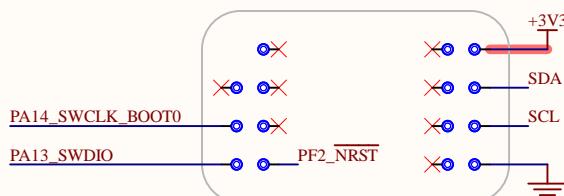
Date: 27/06/2024 Time: 16:11:02

Sheet 1 of 1

File: TOP.SchDoc

Author: Silvio Navaretti

RevAuthor: Silvio Navaretti

I2C CONNECTORS**BUTTONS****MICROCONTROLLER****LEDS****TEST POINTS BOTTOM VIEW****POWER LED**

Fiducial_1
Fiducial mark 1mm

Fiducial_2
Fiducial mark 1mm

Fiducial_3
Fiducial mark 1mm

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Title: TOP

ID: ABX00110

Version: V0.3

Date: 27/06/2024 Time: 16:28:12

Sheet 1 of 2

File: TOP.SchDoc

Author:

Silvio Navaretti

RevAuthor:

Silvio Navaretti



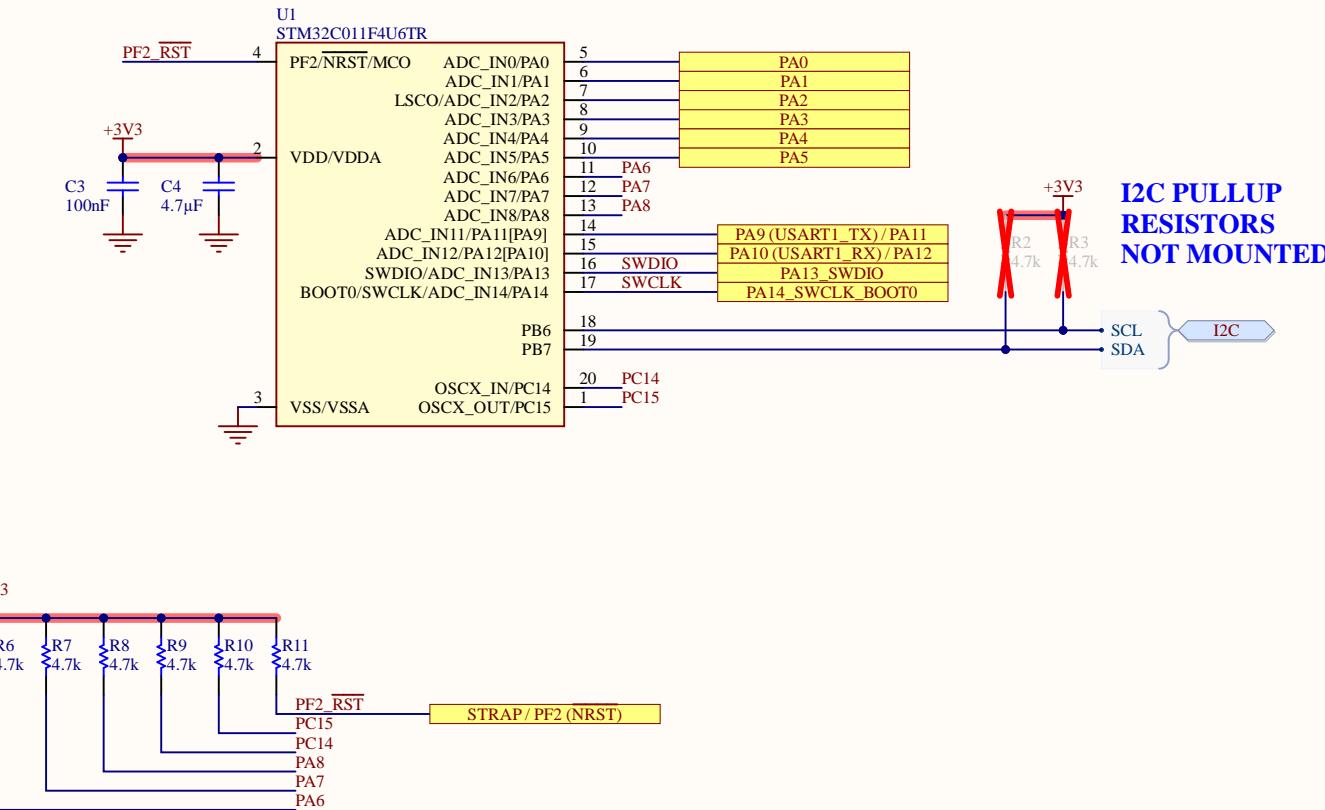


Table 11. Terms and symbols used in Table 12

Column	Symbol	Definition
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Table 12. Pin assignment and description

Pin	Pin name (function upon reset)	Pin type	IO structure	Note	Alternate functions	Additional functions
20	PC14-OSCX_IN/PC14	I/O	FT	-	USART1_TX, TIM1_ETR, TIM1_IEN, IR_OUT, USART1_RTS_DE, CK, TIM17_CH1, TIM3_CH2, I2C1_SDA, EVENTOUT	OSCX_IN
1	PC15-OSCX_OUT/PC15	I/O	FT	-	OSC32_EN, OSC_EN, TIM1_ETR, TIM3_CH3	OSCX_OUT
2	VDD/VDDA	S	-	-	-	-
3	VSS/VSSA	S	-	-	-	-
4	PF2-NRST	I/O	-	-	MCO, TIM1_CH4	NRST
5	PA0	I/O	FT	-	USART2_CTS, TIM16_CH1, USART1_RX, TIM1_CH1	ADC_IN0, WKUP1
6	PA1	I/O	FT	-	SP1, SCK/I2S1_CK, USART2_RTS_DE, CK, TIM17_CH1, USART1_RX, TIM1_CH2, I2C1_SMB, EVENTOUT	ADC_IN1
7	PA2	I/O	FT	-	SP1, MOS/I2S1_SD, USART2_TX, TIM16_CH1N, TIM3_ETR, TIM1_CH3	ADC_IN2, WKUP4LSCO
8	PA3	I/O	FT	-	USART2_RX, TIM1_CHH, TIM1_CH4, EVENTOUT	ADC_IN3
9	PA4	I/O	FT	-	SP1_NSS/I2S1_WS, USART2_RX, TIM1_CH2N, TIM14_CH1, TIM17_CH1N, EVENTOUT	ADC_IN4, RTC_TS, RTC_OUT1, WKUP2
10	PA5	I/O	FT	-	SP1_SCK/I2S1_CK, USART2_RX, TIM1_CH3N, TIM1_CH1, EVENTOUT	ADC_IN5
11	PA6	I/O	FT	-	SP1_MISO/I2S1_MCK, TIM3_CH1, TIM1_BKIN, TIM16_CH1	ADC_IN6
12	PA7	I/O	FT	-	SP1_MOS/I2S1_SD, TIM3_CH2, TIM1_CHN, TIM14_CH1, TIM17_CH1	ADC_IN7
13	PA8	I/O	FT	-	MCO, USART2_TX, TIM1_CH1, EVENTOUT, SP1_NSS/I2S1_WS, TIM1_CH2N, TIM1_CH3N, TIM3_CH3, TIM3_CH4, TIM14_CH1, USART1_RX, MC02	ADC_IN8
-	PA9	I/O	FT	(1)	MCO, USART1_TX, TIM1_CH2, TIM3_ETR, I2C1_SCL, EVENTOUT	-
-	PA10	I/O	FT	(1)	USART1_RX, TIM1_CH3, MC02, TIM17_BKIN, I2C1_SDA, EVENTOUT	-
14	PA11 [PA9]	I/O	FT	(1)	SP1_MISO/I2S1_MCK, USART1_CTS, TIM1_CH4, TIM1_BKIN2	ADC_IN11
15	PA12 [PA10]	I/O	FT	(1)	SP1_MOS/I2S1_SD, USART1_RTS_DE, CK, TIM1_ETR, I2S_CKIN	ADC_IN12
16	PA13	I/O	FT	(2)	SWCLK_USART2_TX, EVENTOUT, USART2_RX, EVENTOUT	ADC_IN13
17	PA14-BOOT0	I/O	FT	(2)	SP1_NSS/I2S1_WS, USART2_RX, TIM1_CH1, MC02, USART1_RTS_DE, CK	ADC_IN14, BOOT0
18	PB6	I/O	FT	-	USART1_TX, TIM1_CH3, TIM16_CH1N, TIM3_CH3, USART1_RTS_DE, CK, USART1_CTS, I2C1_SCL, I2C1_SMB, SP1_MOS/I2S1_SD, SP1_SCK/I2S1_CK, TIM1_CH2, TIM3_CH1, TIM3_CH2, TIM16_BKIN, TIM17_BKIN	WKUP3
19	PB7	I/O	FT	-	USART1_RX, TIM1_CH4, TIM17_CH1N, TIM2_CH4, I2C1_SDA, EVENTOUT, USART2_CTS, TIM16_CH1, TIM3_CH1, I2C1_SCL	RTC_REFIN

1. Pins PA9 and PA10 can be remapped in place of pins PA11 and PA12 (default mapping), using SYSCFG_CFRG1 register.

2. Upon reset, these pins are configured as SWD alternate functions, and the internal pull-up on PA13 pin and the internal pull-down on PA14 pin are activated.

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Title: *

ID: ABX00110

Version: V0.3

Date: 27/06/2024 Time: 16:28:13

Sheet 2 of 2

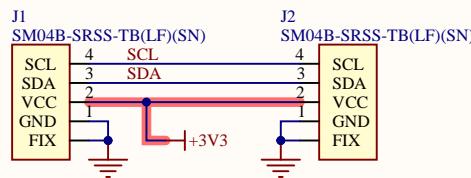
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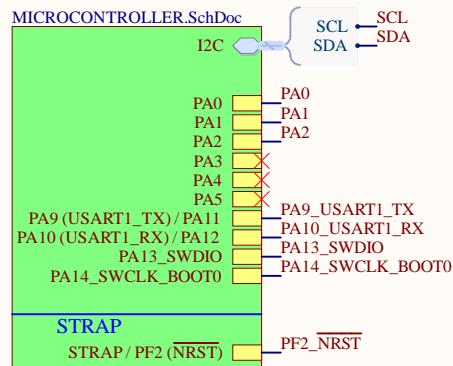
Author: Silvio Navaretti

RevAuthor: Silvio Navaretti

I2C CONNECTORS

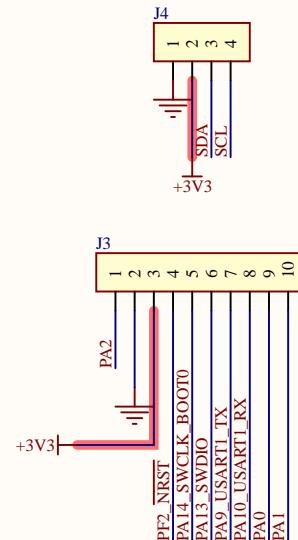
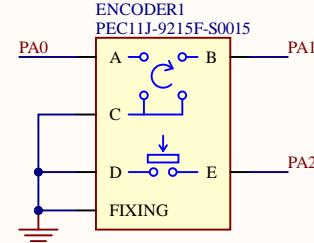


MICROCONTROLLER

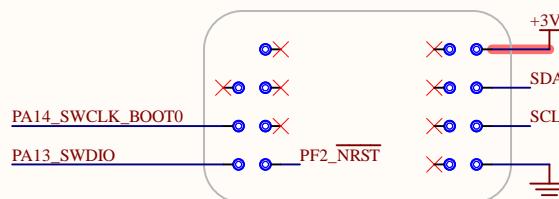


ENCODER

PULLUPS NOTE: Internal microcontroller pullups are enabled for encoder pin A, encoder pin B and encoder switch pin E



TEST POINTS BOTTOM VIEW



POWER LED



Fiducial_1
Fiducial mark 1mm

Fiducial_2
Fiducial mark 1mm

Fiducial_3
Fiducial mark 1mm

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ID: ABX00107

Version: V0.3

Date: 27/06/2024 Time: 16:18:59

Sheet 1 of 2

File: TOP.SchDoc

Author: Silvio Navaretti



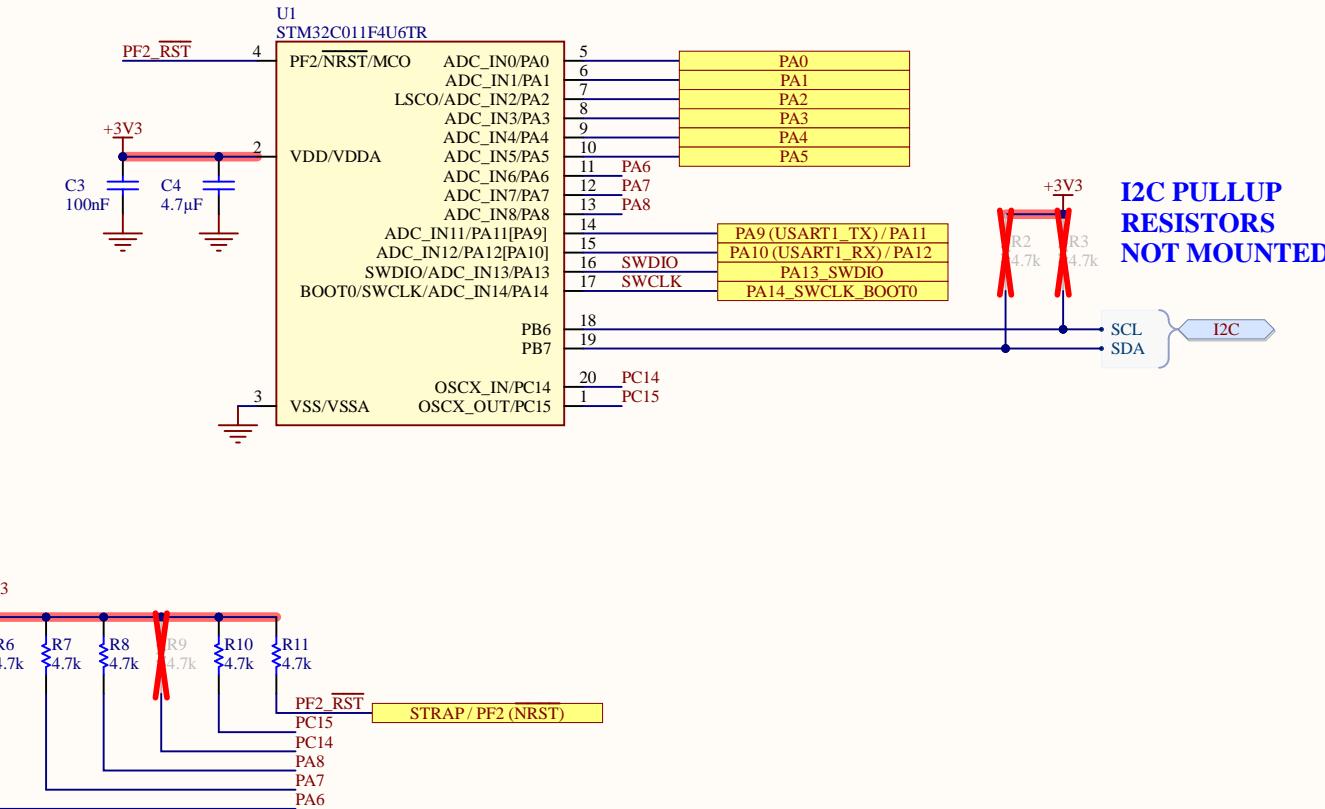


Table 11. Terms and symbols used in Table 12

Column	Symbol	Definition
Pin name		Terminal name corresponds to its by-default function at reset, unless otherwise specified in parenthesis beneath the pin name
Pin type	S	Supply pin
	I	Input only pin
	I/O	Input / output pin
	FT	5 V tolerant I/O
	RST	Bidirectional reset pin with embedded weak pull-up resistor
Options for FT I/Os		
	_f	I/O, Fm+ capable
	_a	I/O, with analog switch function

Table 12. Pin assignment and description

Pin	Pin name (function upon reset)	Pin type	IO structure	Note	Alternate functions	Additional functions
20	PC14-OSCX_IN/PC14	I/O	FT	-	USART1_TX, TIM1_ETR, TIM1_IR_OUT, USART1_RTS_DE_CK, TIM17_CH1, TIM3_CH2, I2C1_SDA, EVENTOUT	OSCX_IN
1	PC15-OSCX_OUT/PC15	I/O	FT	-	OSC32_EN, OSC_EN, TIM1_ETR, TIM3_CH3	OSCX_OUT
2	VDD/VDDA	S	-	-	-	-
3	VSS/VSSA	S	-	-	-	-
4	PF2-NRST	I/O	-	-	MCO, TIM1_CH4	NRST
5	PA0	I/O	FT	-	USART2_CTS, TIM16_CH1, USART1_RX, TIM1_CH1	ADC_IN0, WKUP1
6	PA1	I/O	FT	-	SPI1_SCK/251_CK, USART1_RX, TIM1_CH2, I2C1_SMB, EVENTOUT	ADC_IN1
7	PA2	I/O	FT	-	SPI1_MOSI/251_SD, USART2_TX, TIM16_CH1N, TIM1_ETR, TIM1_CH3	ADC_IN2, WKUP4_LSCO
8	PA3	I/O	FT	-	USART2_RX, TIM1_CHH, TIM1_CH4, EVENTOUT	ADC_IN3
9	PA4	I/O	FT	-	SPI1 NSS/251_WS, USART2_RX, TIM1_CH2N, TIM14_CH1, TIM17_CH1N, EVENTOUT	ADC_IN4, RTC_TS, RTC_OUT1, WKUP2
10	PA5	I/O	FT	-	SPI1_SCK/251_CK, USART2_RX, TIM1_CH3N, TIM1_CH1, EVENTOUT	ADC_IN5
11	PA6	I/O	FT	-	SPI1_MOSI/251_MCK, TIM3_CH1, TIM1_BKIN, TIM16_CH1	ADC_IN6
12	PA7	I/O	FT	-	SPI1_MOSI/251_SD, TIM3_CH2, TIM1_CHN, TIM14_CH1, TIM17_CH1	ADC_IN7
13	PA8	I/O	FT	-	MCO, USART2_TX, TIM1_CH1, EVENTOUT, SPI1_NSS/251_WS, TIM1_CH2N, TIM1_CH3N, TIM3_CH3, TIM3_CH4, TIM14_CH1, USART1_RX, MC02	ADC_IN8
-	PA9	I/O	FT	(1)	MCO, USART1_TX, TIM1_CH2, TIM3_ETR, I2C1_SCL, EVENTOUT	-
-	PA10	I/O	FT	(1)	USART1_RX, TIM1_CH3, MC02, TIM17_BKIN, I2C1_SDA, EVENTOUT	-
14	PA11 [PA9]	I/O	FT	(1)	SPI1_MISO/251_MCK, USART1_CTS, TIM1_CH4, TIM1_BKIN2	ADC_IN11
15	PA12 [PA10]	I/O	FT	(1)	SPI1_MOSI/251_SD, USART1_RTS_DE_CK, TIM1_ETR, I2S_CKIN	ADC_IN12
16	PA13	I/O	FT	(2)	SWDIO, IR_OUT, TIM3_ETR, USART2_RX, EVENTOUT	ADC_IN13
17	PA14-BOOT0	I/O	FT	(2)	SPI1 NSS/251_WS, USART2_RX, TIM1_CH1, MC02, USART1_RTS_DE_CK	ADC_IN14, BOOT0
18	PB6	I/O	FT	-	USART1_TX, TIM1_CH3, TIM16_CH1N, TIM3_CH3, USART1_RTS_DE_CK, USART1_CTS, I2C1_SCL, I2C1_SMB, SPI1_MOSI/251_SD, SPI1_SCK/251_CK, TIM1_CH2, TIM3_CH1, TIM3_CH2, TIM16_BKIN, TIM17_BKIN	WKUP3
19	PB7	I/O	FT	-	USART1_RX, TIM1_CH4, TIM17_CH1N, TIM2_CH4, I2C1_SDA, EVENTOUT, USART2_CTS, TIM16_CH1, TIM3_CH1, I2C1_SCL	RTC_REFIN

1. Pins PA9 and PA10 can be remapped in place of pins PA11 and PA12 (default mapping), using SYSCFG_CFRGR1 register.

2. Upon reset, these pins are configured as SWD alternate functions, and the internal pull-up on PA13 pin and the internal pull-down on PA14 pin are activated.

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Title: Microcontroller

ID: ABX00107

Version: V0.3



Date: 27/06/2024 Time: 16:19:00

Sheet 2 of 2

File: MICROCONTROLLER.SchDoc

Author: Silvio Navaretti

RevAuthor: Silvio Navaretti

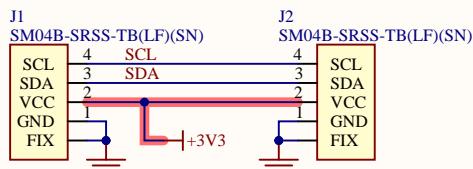
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1

I2C CONNECTORS



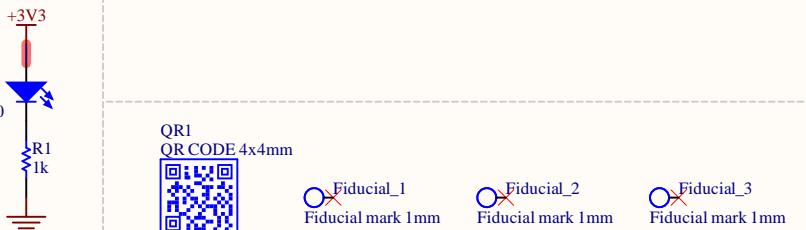
I2C ADDRESS 0x52

GPIO1 is
open drain

TEST POINTS BOTTOM VIEW



POWER LED



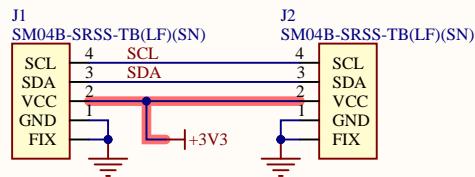
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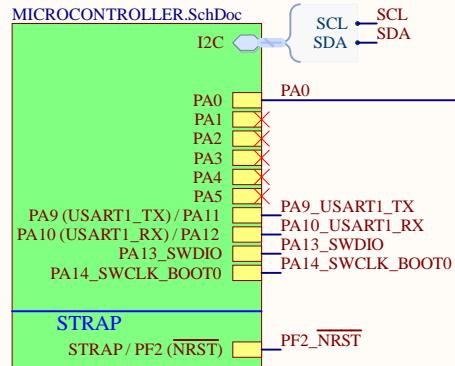
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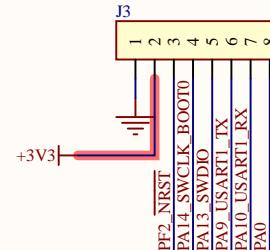
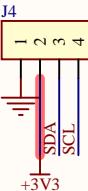
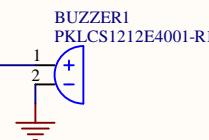
I2C CONNECTORS



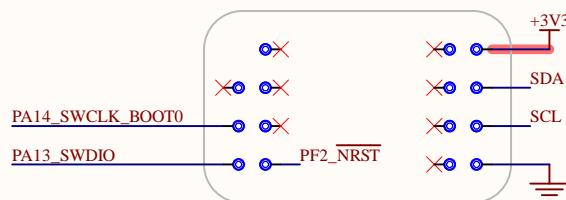
MICROCONTROLLER



BUZZER



TEST POINTS BOTTOM VIEW



POWER LED



Fiducial_1
Fiducial mark 1mm

Fiducial_2
Fiducial mark 1mm

Fiducial_3
Fiducial mark 1mm

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Title: TOP

ID: ABX00108

Version: V0.3

Date: 27/06/2024 Time: 16:22:22

Sheet 1 of 2

File: TOP.SchDoc

Author: Silvio Navaretti



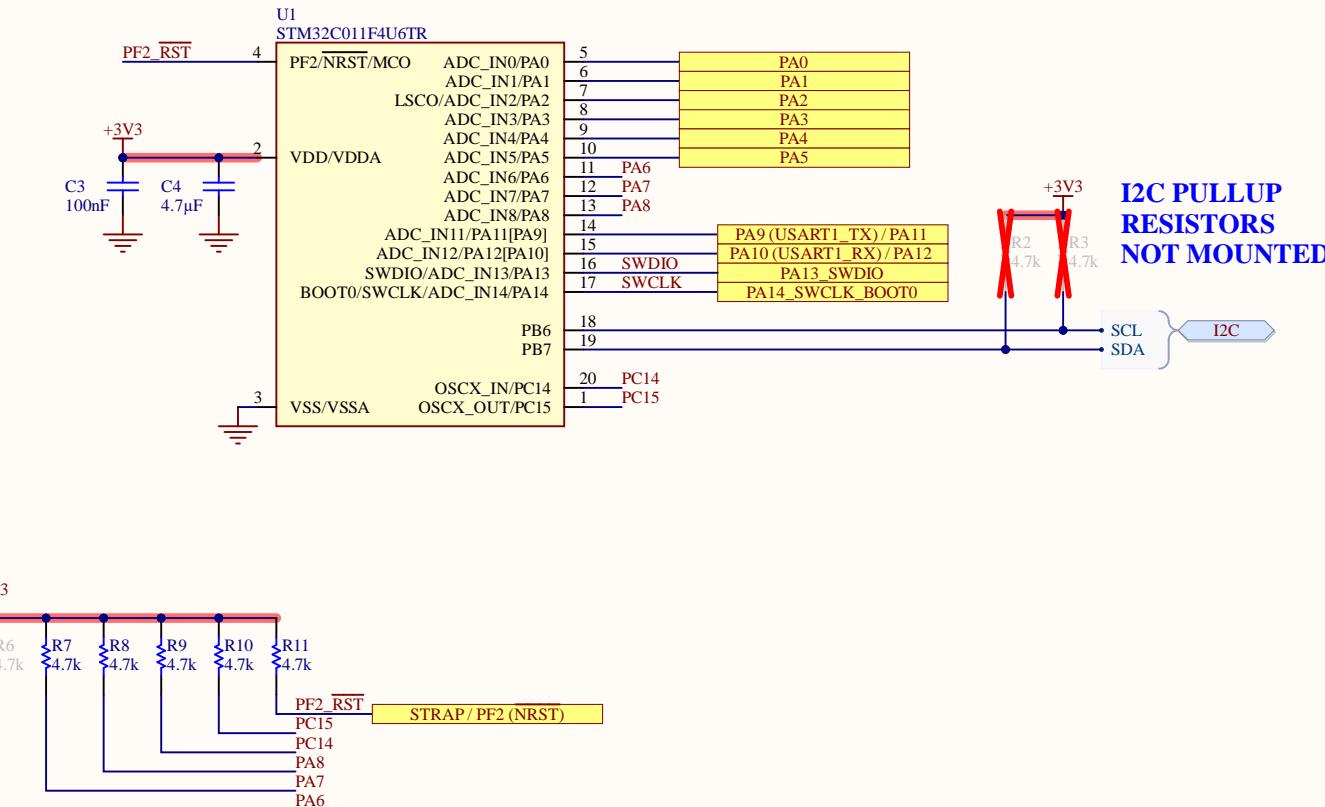


Table 11. Terms and symbols used in Table 12

Column	Symbol	Definition
Pin name		Terminal name corresponds to its by-default function at reset, unless otherwise specified in parenthesis beneath the pin name
Pin type	S	Supply pin
	I	Input only pin
	I/O	Input / output pin
	FT	5 V tolerant I/O
	RST	Bidirectional reset pin with embedded weak pull-up resistor
I/O structure	Options for FT I/Os	
	_f	I/O, Fm+ capable
	_a	I/O, with analog switch function

Table 12. Pin assignment and description

Pin	Pin name (function upon reset)	Pin type	IO structure	Note	Alternate functions	Additional functions
20	PC14-OSCX_IN/PC14	I/O	FT	-	USART1_TX, TIM1_ETR, TIM1_IRGNG, IR_OUT, USART1_RTS_DE, CK, TIM17_CH1, TIM3_CH2, I2C1_SDA, EVENTOUT	OSCX_IN
1	PC15-OSCX_OUT/PC15	I/O	FT	-	OSC32_EN, OSC_EN, TIM1_ETR, TIM3_CH3	OSCX_OUT
2	VDD/VDDA	S	-	-	-	-
3	VSS/VSSA	S	-	-	-	-
4	PF2-NRST	I/O	-	-	MCO, TIM1_CH4	NRST
5	PA0	I/O	FT	-	USART2_CTS, TIM16_CH1, USART1_RX, TIM1_CH1	ADC_IN0, WKUP1
6	PA1	I/O	FT	-	SP11_SCK/2S1_CK, USART2_RTS_DE, CK, TIM17_CH1, USART1_RX, TIM1_CH2, I2C1_SMB, EVENTOUT	ADC_IN1
7	PA2	I/O	FT	-	SP11_MOSI/2S1_SD, USART2_TX, TIM16_CH1N, TIM3_ETR, TIM1_CH3	ADC_IN2, WKUP4LSC0
8	PA3	I/O	FT	-	USART2_RX, TIM1_CHHN, TIM1_CH4, EVENTOUT	ADC_IN3
9	PA4	I/O	FT	-	SP11 NSS/2S1_WS, USART2_RX, TIM1_CH2N, TIM14_CH1, TIM17_CH1N, EVENTOUT	ADC_IN4, RTC_TS, RTC_OUT1, WKUP2
10	PA5	I/O	FT	-	SP11_SCK/2S1_CK, USART2_RX, TIM1_CH3N, TIM1_CH1, EVENTOUT	ADC_IN5
11	PA6	I/O	FT	-	SP11_MOSI/2S1_MCK, TIM3_CH1, TIM1_BKIN, TIM16_CH1	ADC_IN6
12	PA7	I/O	FT	-	SP11_MOSI/2S1_SD, TIM3_CH2, TIM1_CHN, TIM14_CH1, TIM17_CH1	ADC_IN7
13	PA8	I/O	FT	-	MCO, USART2_TX, TIM1_CH1, EVENTOUT, SP11_NSS/2S1_WS, TIM1_CH2N, TIM1_CH3N, TIM3_CH3, TIM3_CH4, TIM14_CH1, USART1_RX, MC02	ADC_IN8
-	PA9	I/O	FT	(1)	MCO, USART1_TX, TIM1_CH2, TIM3_ETR, I2C1_SCL, EVENTOUT	-
-	PA10	I/O	FT	(1)	USART1_RX, TIM1_CH3, MC02, TIM17_BKIN, I2C1_SDA, EVENTOUT	-
14	PA11 [PA9]	I/O	FT	(1)	SP11_MISO/2S1_MCK, USART1_CTS, TIM1_CH4, TIM1_BKIN2	ADC_IN11
15	PA12 [PA10]	I/O	FT	(1)	SP11_MOSI/2S1_SD, USART1_RTS_DE, CK, TIM1_ETR, I2S_CKIN	ADC_IN12
16	PA13	I/O	FT	(2)	SWCLK_USART2_TX, EVENTOUT, USART2_RX, USART2_RTS_DE, CK, EVENTOUT	ADC_IN13
17	PA14-BOOT0	I/O	FT	(2)	SWCLK_USART2_TX, EVENTOUT, USART1_NSS/2S1_WS, USART2_RX, TIM1_CH1, MC02, USART1_RTS_DE, CK	ADC_IN14, BOOT0
18	PB6	I/O	FT	-	USART1_TX, TIM1_CH3, TIM16_CH1N, TIM3_CH3, USART1_RTS_DE, CK, USART1_CTS, I2C1_SCL, I2C1_SMB, SP11_MOSI/2S1_SD, SP11_MISO/2S1_MCK, SP11_SCK/2S1_CK, TIM3_CH1, TIM3_CH2, TIM16_BKIN, TIM17_BKIN	WKUP3
19	PB7	I/O	FT	-	USART1_RX, TIM1_CH4, TIM17_CH1N, TIM3_CH4, I2C1_SDA, EVENTOUT, USART2_CTS, TIM16_CH1, TIM3_CH1, I2C1_SCL	RTC_REFIN

1. Pins PA9 and PA10 can be remapped in place of pins PA11 and PA12 (default mapping), using SYSCFG_CFRGR1 register.

2. Upon reset, these pins are configured as SWD alternate functions, and the internal pull-up on PA13 pin and the internal pull-down on PA14 pin are activated.

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Title: Microcontroller

ID: ABX00108

Version: V0.3

Date: 27/06/2024 Time: 16:22:23

Sheet 2 of 2

File: MICROCONTROLLER.SchDoc



A

A

B

B

C

C

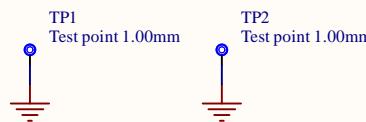
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ID: ASX00071	Version: V0.2		
Date: 27/06/2024	Time: 16:30:09	Sheet 1 of 1	
File: TOP.SchDoc	Author: Daniela Catanzaro	RevAuthor: Daniela Catanzaro	