©

1. 1 4

2. 1 5
2. 2 5

4. 1 PCB 8
4. 2 ES-Link 9
4. 2. 1 Driver .....

©

1

ES32F0283 USB

(SDK) MCU USB

SDK USB

1. 1

- ES32F0283 LQFP 64-PIN
- 4 LED LED1 LED2 LED3 LED4
- K1
- K2
-

  I/O XS7 (PDS A/B)

  ES Link II XS3

  Arduino XS6 (PDS C/D/E/F)
- XTAL

  8MHz HOSC Y2

  32.768K LOSC/RTC Y3
- Micro - USB OTG XS2
- NCP380( ) U3
- R0
- ES Link II-OB M1

©

2

2. 1

- Windows OS PC
- USB Type-A or USB Type-C to Micro-B Cable

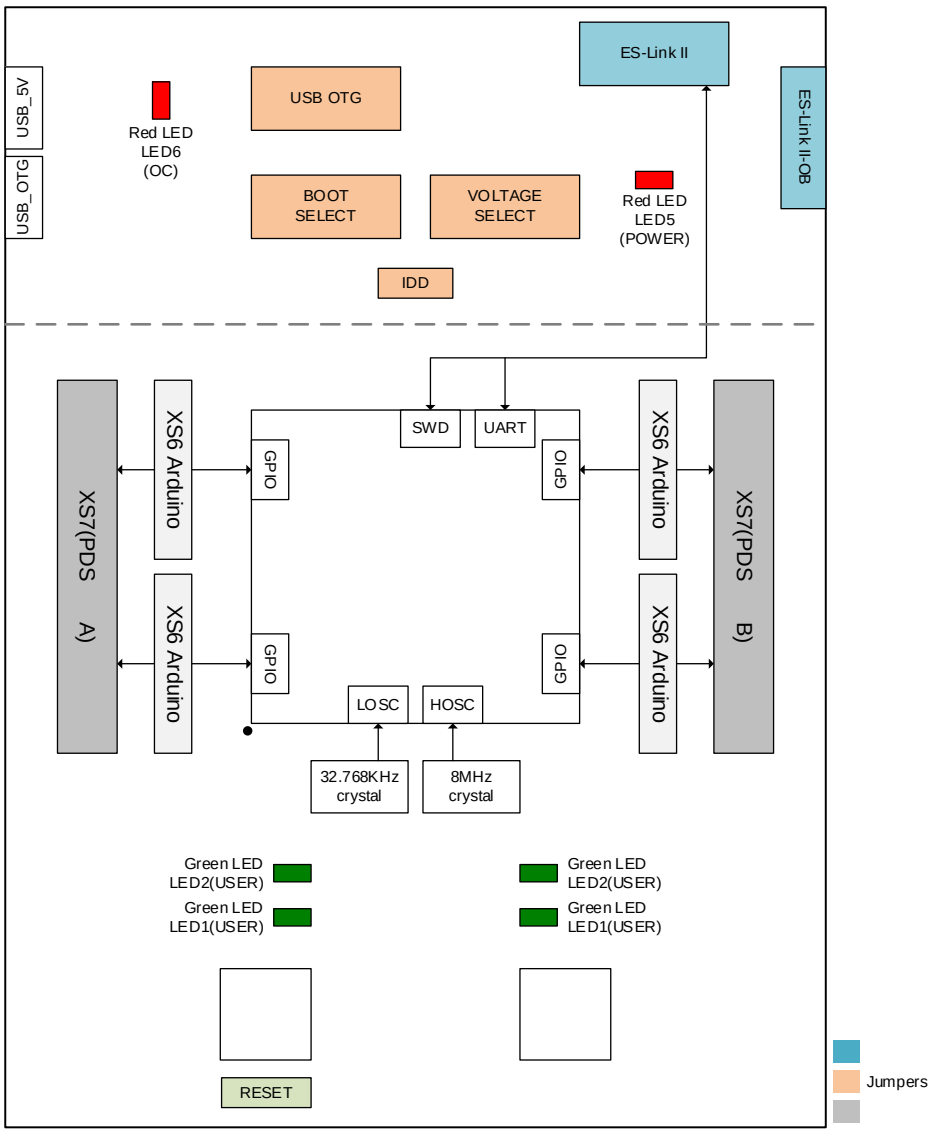
2. 2

- PDS
- ES-L_ ı á % / M

©

4

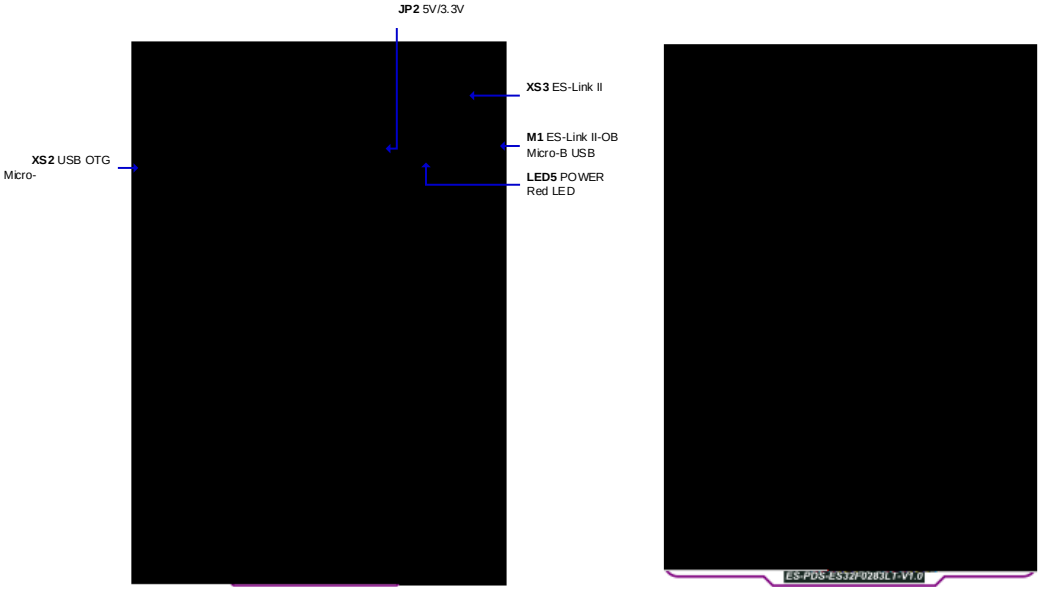
ES32F0283 PDS 64pin LQFP(7x7mm) ES32F0283
(ES-Link II-OB, LED USB ARDUINO)



4-1 PDS

©

4. 1


JP2 5V/3.3V
XS3 ES-Link II
M1 ES-Link II-OB
Micro-B USB
LED5 POWER
Red LED
XS2 USB OTG
Micro-

4-2

4-3

©

©

4. 4

4. 4. 1

◆ Y2( )

8MHz Y2 PCB

SB3, SB4 ON

SB7, SB8 OFF

C15, C16 20pF

◆ PD14

XS7(PDS B) 54 PCB

SB3, SB4 OFF

SB7 ON

SB8 OFF

SB25 OFF

◆ HOSC

PD14 PD15 GPIO PCB

SB3, SB4 OFF

SB7, SB8 ON

SB25 OFF

4. 4. 2

◆ Y3( )

32.768KHz Y3 PCB

SB1, SB2 ON

SB5, SB6 OFF

C18, C19 10pF

◆ PC14

XS7(PDS B) 58 PCB

SB1, SB2 OFF

SB5 ON

SB6 OFF

SB26 OFF

◆ LOSC

PD14 PD15 GPIO PCB

SB1, SB2 OFF

SB5, SB6 ON

SB26 OFF

©

4. 5

4. 5. 1

◆ LED1~LED4 USER

4 LED

LED1	PC00(SB23 ON)	GPIO	0
LED2	PC01(SB24 ON)	GPIO	0
LED3	PC02(SB10 ON)	GPIO	0
LED4	PC03(SB11 ON)	GPIO	0

◆ LED5 Power

ES32F0283 5V XS7(PDS A) pin 1 XS7(PDS B) pin 34 XS6(PDS C) pin 5 5V

◆ LED6 USBOTG (OC)

OTG_5V 500 mA

4. 5. 2

◆ K1 RESET

NRST

©

4. 5. 4

ES32F0283 (Jumper)JP3 PCB

- JP3 ON 5V 3.3V
- JP3 OFF

4. 5. 5

ES32F0283 PDS UART1 UART3 ES-Link II-OB ARDUINO Uno V3 (I/O) UART1 SB UART3 SB



©

4. 6

LOSC	SB1 & SB2	(1)	(1)
		OFF	LOSC 32.768 kHz CLK
	SB5	ON	PC14/LOSCI I/O (XS7(PDS B) 58)
		(1)	(1)
	SB6	ON	PC15/LOSCO I/O (XS7(PDS B) 56)
		(1)	(1)

HOSC

©

			17)

(1)

©

©

5. 2 5. 2

©

PDS C	1	NC	-	-	-
	2	NC	-	-	-
	3	NRST	MRST	NRST	RESET
	4	3.3V	VDD_33	-	VDD
	5	5V	VDD_5V	-	5V output
	6	GND	-	-	GND
	7	GND	-	-	GND
	8	NC	-	-	-
PDS D	9	A0	ADC	PA07	ADIN7
	10	A1	ADC	PA06	ADIN6
	11	A2	ADC	PA05	(1)/CMP1_INN5/CMP2_INN5
	12	A3	ADC	PA04	(1)/CMP1_INN4/CMP2_INN4
	13	A4	ADC	PA03	(1)/CMP2_INP
	14	A5	ADC	PA02	(1)/CMP2_INN6
	15	GND	-	-	GND
	16	VDD	VDD_IC	-	VDD
	17	VDD	VDD_IC	-	

PDS E

©

©

41	PA08	PA08	IO
42	PA09	PA09	IO/ARD_D5-IO
43	PA10	PA10	(1)/IO
44	PA11	PA11	/IO
45	PA12	PA12	(1)/IO
46	PA13	PA13	(1)
47	VSSH	GND	GND
48	VDDUSB	VDDUSB	VDDUSB
49	PA14	PA14	(1)
50	PA15	PA15	IO
51			

©