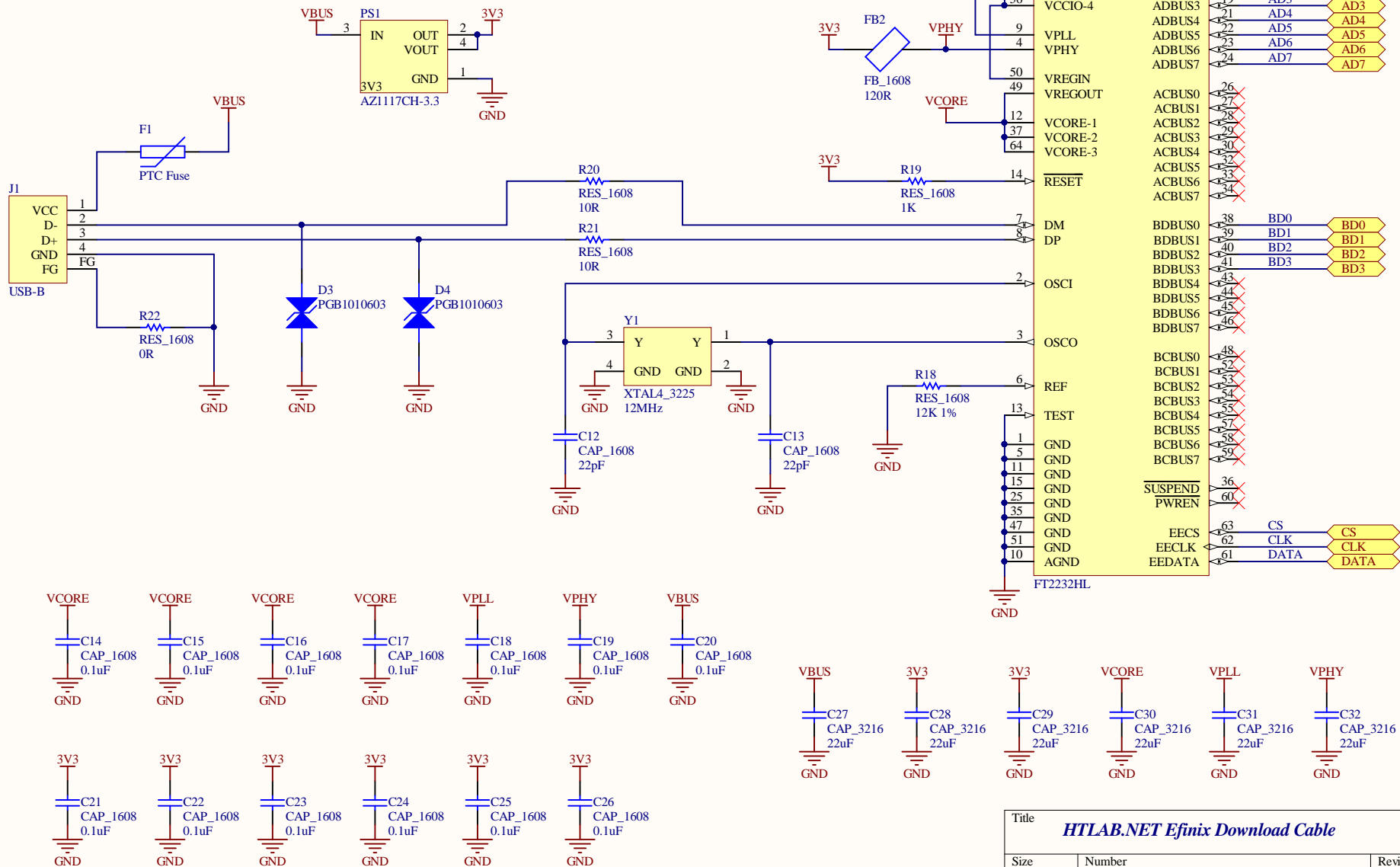


FTDI FT232HL



Title		
HTLAB.NET Efinix Download Cable		
Size	Number	Revision
A4		Ver 1.0
Date:	2025/01/21	Sheet of
File:	C:\Users\...\FT232H.SchDoc	Drawn By:

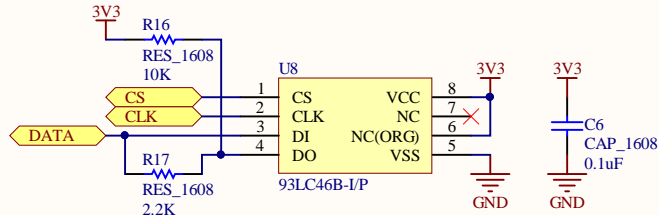
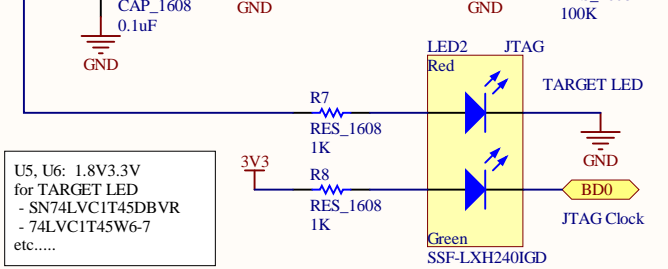
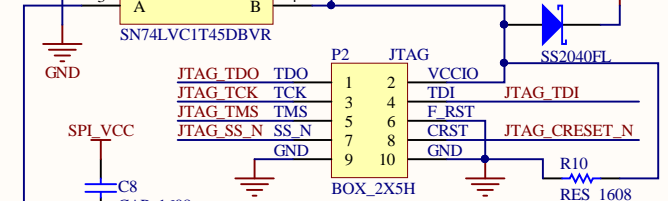
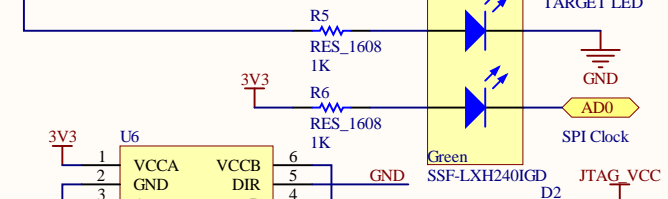
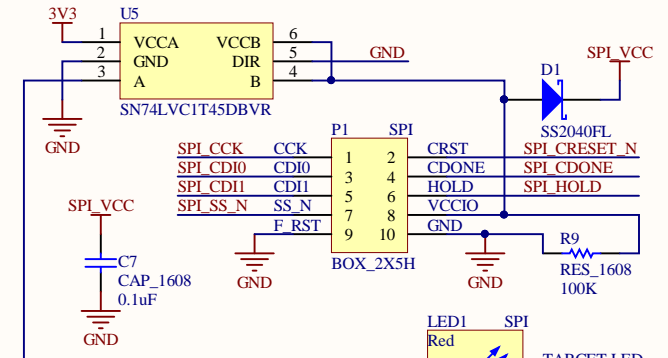
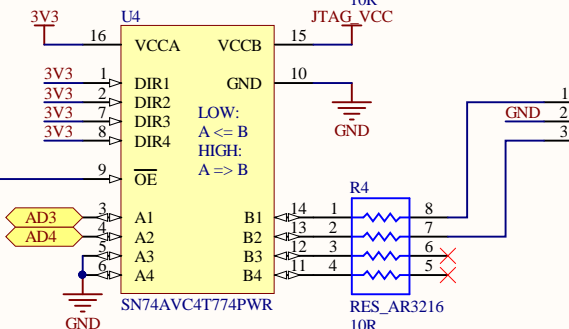
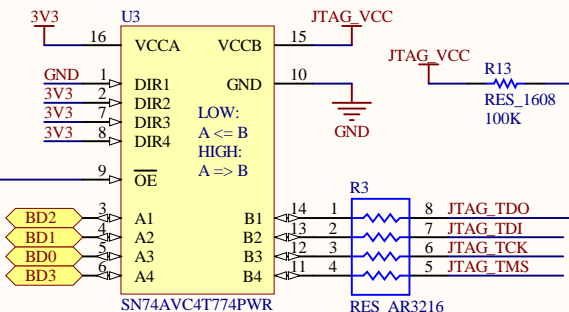
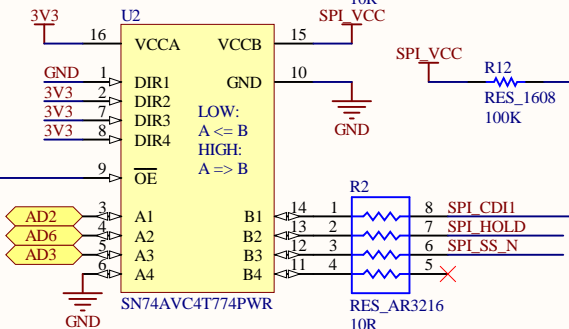
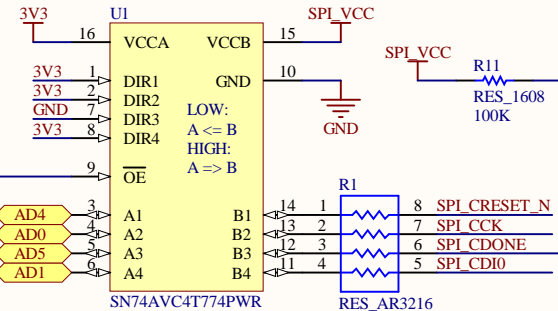
FTDI FT2232H

With reference to FT2232H.SchDoc

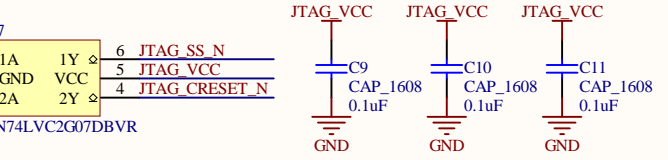
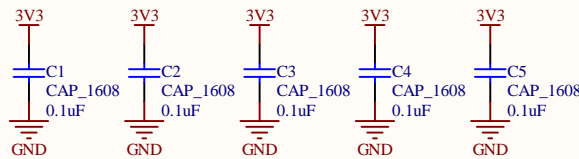
U1, U2, U3, U4: 1.8V3.3V
4-Bit Dual-Supply Bus
Transceiver
- SN74AHC4T774PWRQ1
- SN74AHC4T774PWR
- 74AHC4T774PWJ
etc.....

AD0 => SCLK
AD1 => MOSI
AD2 <= MISO
AD3 => SS
AD4 => CRST
AD5 <= CDONE
AD6 => HOLD
AD7 => SPI_ENABLE

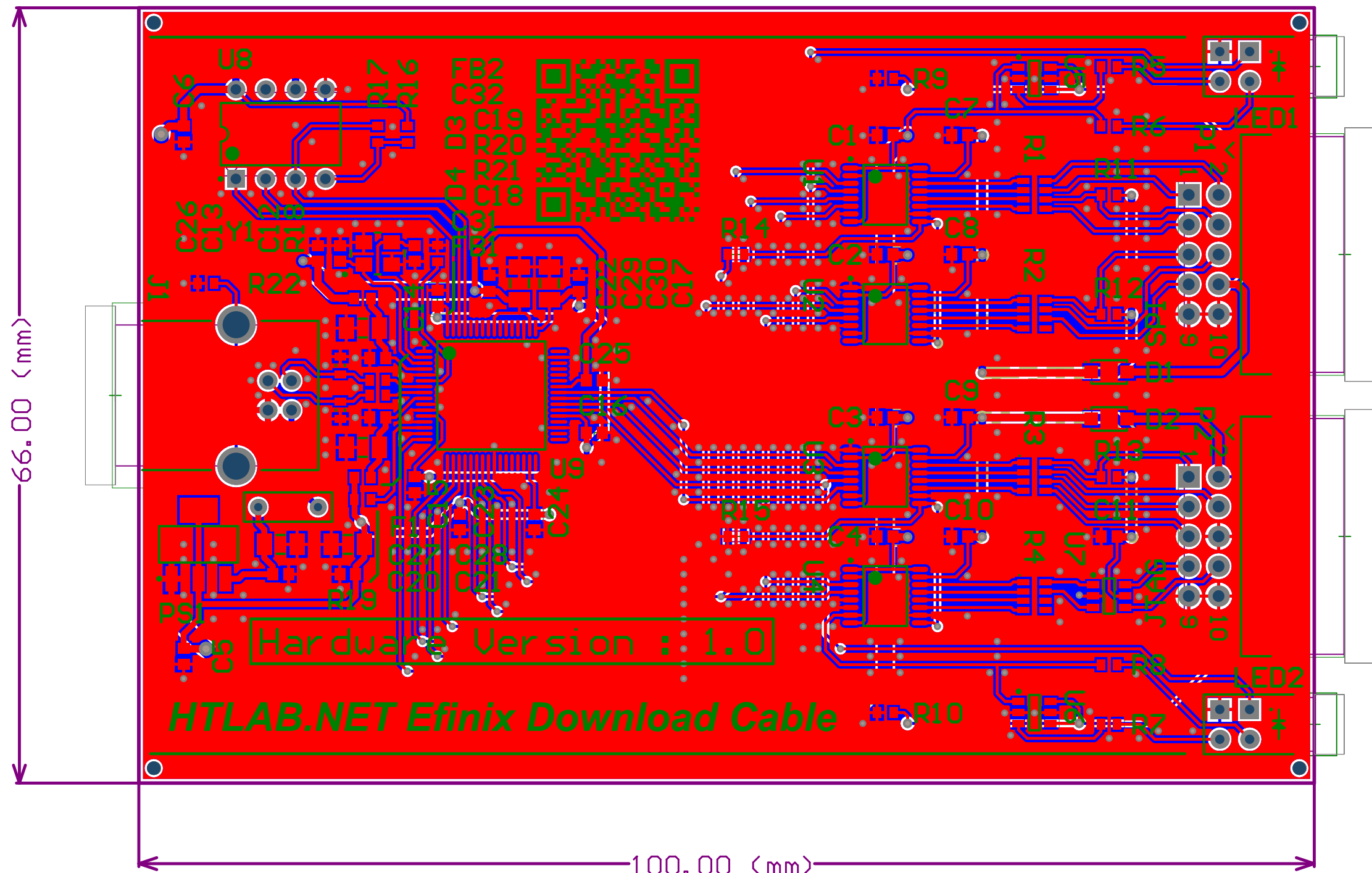
U7: 1.8V3.3V
Open Drain Dual Buffer
- SN74LVC2G07DBVR
- 74LVC2G07W6-7
etc.....



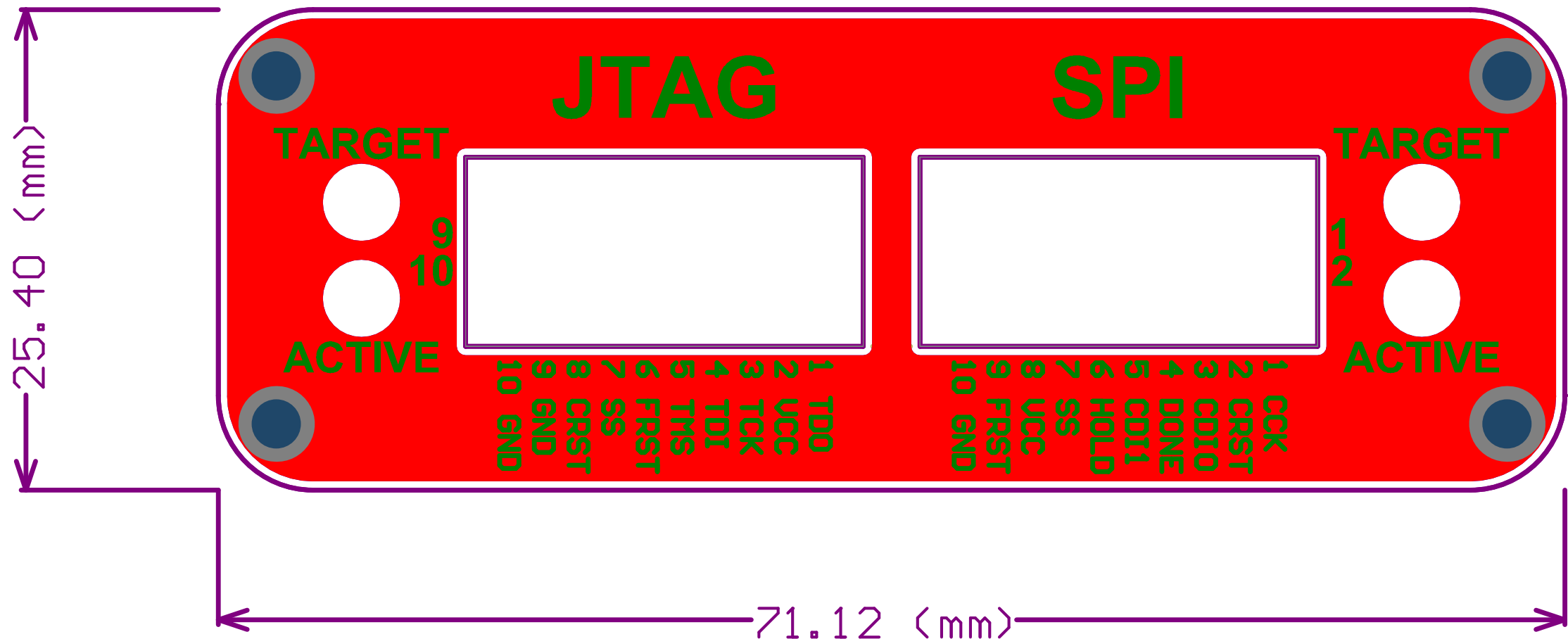
U8: Microchip 93LC46B (93AA46B-I/P, 93LC46B-I/P, 93AA46C-I/P)



Title		
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Date:	2025/01/21	Sheet of
File:	C:\Users\...FT2232H_Efinix_Download_Cable\FT2232H.SchDoc	







Comment	Description	Designator	Footprint	LibRef	Quantity	Value
CAP_1608	Capacitor 1608	C1, C2, C3, C4, C5, C6, C7, C8, C9, C10, C11, C14, C15, C16, C17, C18, C19, C20, C21, C22, C23, C24, C25, C26	C1608_N	CAP_1608	24	0.1uF
CAP_1608	Capacitor 1608	C12, C13	C1608_N	CAP_1608	2	22pF
CAP_3216	Capacitor 3216	C27, C28, C29, C30, C31, C32	C3216_N	CAP_3216	6	22uF
SS2040FL	Schottky Rectifier SOD-123FL	D1, D2	SOD-123F_N	SS2040FL	2	
PGB1010603	Transient Voltage Suppression (TVS) Diode	D3, D4	TVS_1608_N	PGB1010603	2	
PTC Fuse	PTC Fuse, 200mil Pitch	F1	PTC_DIP_200_7.9	PTC_DIP_200	1	
FB_1608	Ferrite Bead 1608	FB1, FB2	L1608_N	FB_1608	2	120R
USB-B	USB Type B	J1	USB_TYPE-B	USB-B	1	
SSF-LXH240IGD	SSF-LXH240IGD, MHK2396EGBTD, 5530112F, WP934MD/LILGD, H-201C, LED-322	LED1, LED2	SSF-LXH240IGD	SSF-LXH240IGD	2	
BOX_2X5H	Header, 5-Pin, Dual row	P1, P2	BOXH_2X5_HORIZONTAL_N	BOX_2X5H	2	
AZ1117CH-3.3	Linear Voltage Regulator IC Positive Fixed 1 Output 1A SOT-223-3	PS1	SOT-223_N	AZ1117CH-3.3TRG1	1	
RES_AR3216	Resistor Array, CAT16-J4 / EXB-V8V	R1, R2, R3, R4	AR8_3216_N	RES_AR3216	4	10R
RES_1608	Resistor 1608	R5, R6, R7, R8, R19	R1608_N	RES_1608	5	1K
RES_1608	Resistor 1608	R9, R10, R11, R12, R13	R1608_N	RES_1608	5	100K
RES_1608	Resistor 1608	R14, R15, R20, R21	R1608_N	RES_1608	4	10R
RES_1608	Resistor 1608	R16	R1608_N	RES_1608	1	10K
RES_1608	Resistor 1608	R17	R1608_N	RES_1608	1	2.2K
RES_1608	Resistor 1608	R18	R1608_N	RES_1608	1	12K 1%
RES_1608	Resistor 1608	R22	R1608_N	RES_1608	1	0R
SN74AVC4T774PWR	4-Bit Dual-Supply Bus Transceiver With Configurable Voltage-Level Shifting and 3-State Outputs With Independent Direction Control Inputs	U1, U2, U3, U4	TSSOP-16_N	SN74AVC4T774PWR	4	
SN74LVC1T45DBVR	Single-Bit Dual-Supply Bus Transceiver With Configurable Voltage Translation and 3-State Outputs	U5, U6	SOT-23-6_N	SN74LVC1T45DBVR	2	
SN74LVC2G07DBVR	Dual Buffer and Driver With Open-Drain Outputs	U7	SOT-23-6_N	SN74LVC2G07DBVR	1	
93LC46B-I/P	1Kb Microwire Serial EEPROM with 16-Bit Organization	U8	DIP-8_300	93LC46B-I/P	1	
FT2232HL	FT2232H Dual High Speed USB to Multipurpose UART/FIFO IC	U9	LQFP-64_P0.5_N	FT2232HL	1	
XTAL4_3225	Crystal , OSC_3225 Oscillator Package	Y1	OSC_3225	XTAL4_3225	1	12MHz