

FTDI Programmer/UART/FIFO

Optional:
We are not programming the
FTDI flash. We will keep the
footprint but will not populate:

Pinout table for FT232RL (U4):

Pin	Signal	Component	Notes
16	IC2_SCK	J1	Rx_TTL FIFO_D0
17	FLASH_MQSI IO0	J2	Tx_TTL FIFO_D1
18	FLASH_MISO IO1	J3	P2_10
19	IC2_SS_B	J4	P2_4
21	IC2_CS_B	J5	P2_9
22	IC2_CS_B	J6	P2_3
23	IC2_CS_B	J7	P2_8
24	xICE_CRESET	J8	P2_2
26	ACBUS0	J9	P2_7
27	ACBUS1	J10	P2_1
28	ACBUS2	J11	LEDR
29	ACBUS3	J12	LEDR
30	ACBUS4	J13	LEDR
31	ACBUS5	J14	LEDR
32	ACBUS6	J15	LEDR
33	ACBUS7	J16	LEDR
34	ACBUS7	J17	LEDR
38	xFIFO_D0 RX	J18	P2_7
39	xFIFO_D1 TX	J19	P2_1
40	xFIFO_D2 RTS	J20	LEDR
41	xFIFO_D3 CTS	J21	LEDR
42	xFIFO_D4 DTR	J22	LEDR
43	xFIFO_D5 DSR	J23	LEDR
44	xFIFO_D6 DCD	J24	LEDR
45	xFIFO_D7 RI	J25	LEDR
46	xFIFO_D7 RI	J26	LEDR
48	xFIFO_RXF TXDEN	J27	P2_7
52	xFIFO_TXE	J28	P2_1
53	xFIFO_RD	J29	LEDR
54	xFIFO_WR RXLED	J30	LEDR
55	xFIFO_WKUP TXLED	J31	LEDR
56	xFIFO_WKUP TXLED	J32	LEDR
57	BCBUS0	J33	LEDR
58	BCBUS1	J34	LEDR
59	BCBUS2	J35	LEDR
60	PWREN	J36	LEDR
61	SUSPEND	J37	LEDR

[illegible]

ICE-PTA-FRUSH

U5 W25Q

CS 1 **FLASH_CS** **J18** **ICE_SS_B**

CLK 6 **ICE_SCK**

DI/I00 5 **FLASH_MOSI||I00**

DO/I01 2 **FLASH_MISO||I01**

WP/I02 3 **FLASH_WP||I02**

HLD/RST/I03 7 **FLASH_HLD|RST||I03**

J18: Remove Jumper when only programming ICE
Replace jumper for programming Flash and for normal operation

FLASH_MOSI||I00 **J15** **ICE_S0**

ICE_SI **J16** **FLASH_MISO||I01**

--- For programming Flash
!! For programming ICE

For programming ICE cut traces connecting J15 and J16 pads.
Short the pads 1 and 2 together of the J15 and J16 respectively.
For programming Flash reverse the operations.

Dual PMOD

[illegible][illegible]

Wiring diagram for an RGB LED (J25). The LED has 8 pins. The connections are as follows:

- Pin 1: +1V2
- Pin 2: +5V
- Pin 3: LED_GRN
- Pin 4: LED_RED
- Pin 5: GND
- Pin 6: LED_BLUE
- Pin 7: GND
- Pin 8: +3V3

The LED is labeled RGB Led.