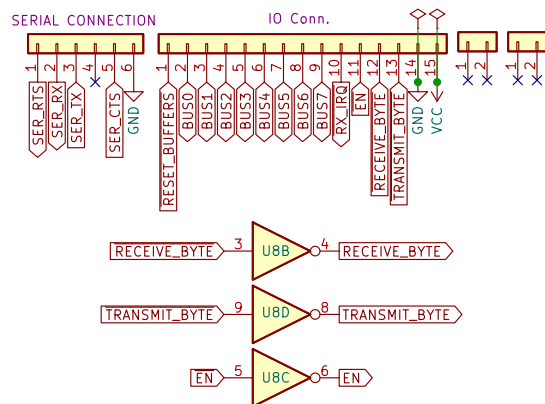


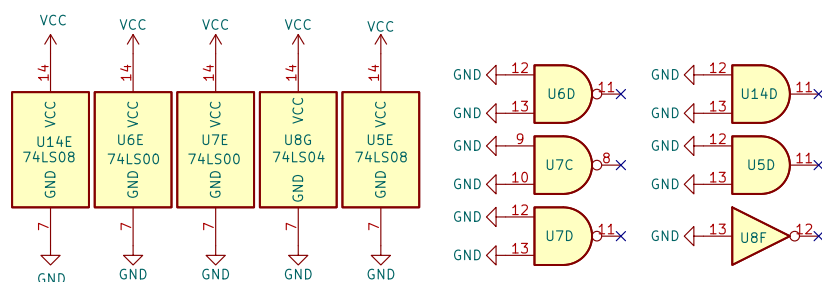
UART – SERIAL PORT MODULE

(2) 64x8 FIFO BUFFERS // TX and RX

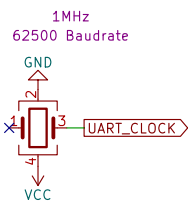
CONNECTIONS



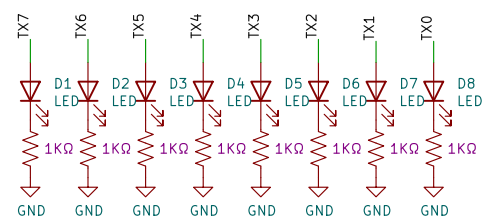
LOGIC GATE



CLOCK

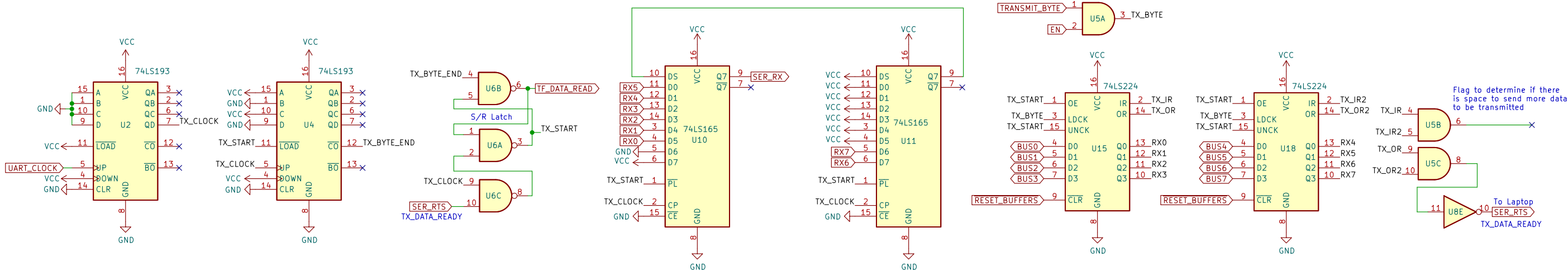


LED INDICATORS

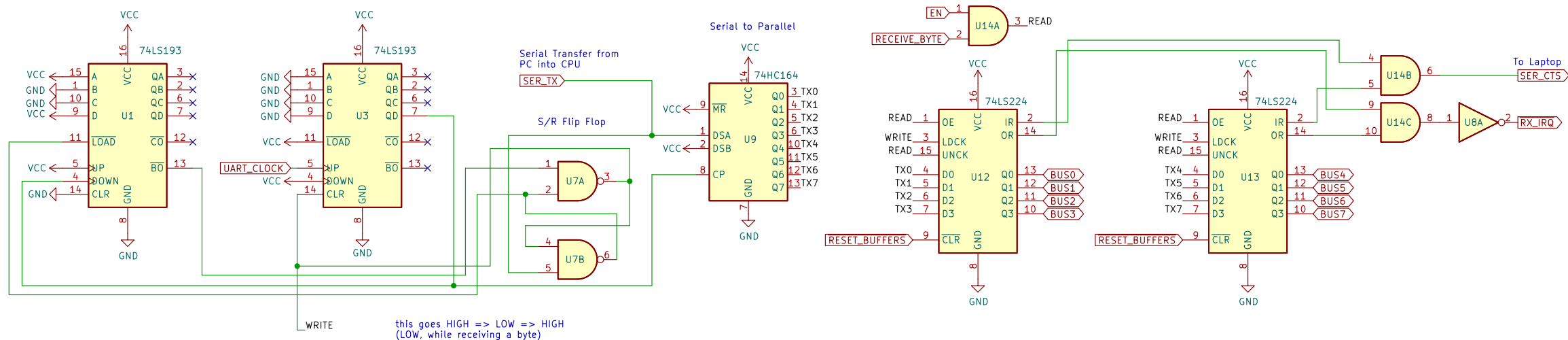


- RX_IRQ** – When LOW, there is no more data in buffer to read
- RECEIVE_BYTE** – LOW to HIGH transition, asserts a byte onto data bus from the RX buffer
- TX_BUFF_FULL** – When LOW, there is no room in tx buffer, if HIGH there is more room to transmit
- TRANSMIT_BYTE** – LOW to HIGH transition sends byte from data bus to the TX buffer
- RESET_BUFFERS** – When LOW all FIFO buffers are reset

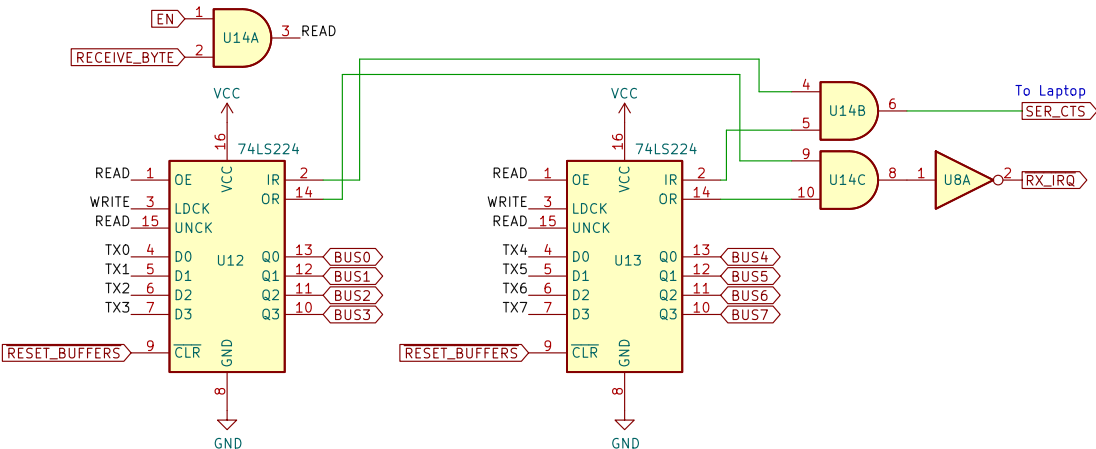
SERIAL TRANSMIT DATA



SERIAL RECEIVE DATA



RECEIVE FIFO



Transmit & Receive w/ FIFO Buffers
theWickedWebDev/8-bit-computer

Sheet: /
File: UART.kicad_sch

Title: Serial Port (UART)

Size: User Date: 2022-02-10
KiCad E.D.A. kicad (6.0.0-0)

Rev: V1
Id: 1/1