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The schematic diagram illustrates the internal circuitry of the FT232RL module. Key components include:

- Crystal and Timing:** A crystal (X1) with a 32.25 kHz frequency and two capacitors (C70, C71) are connected to the CRYSTAL_CK3225B12000DFJ.CC component.
- FT232RL Chip (U9):** The central component, which interfaces between the FT232H and the FT232RL. It has multiple pins for power, ground, and data signals.
- SN66015N (U10):** A component that provides a clock signal (CLK) to the FT232RL chip.
- Power and Ground Connections:** The diagram shows connections for FT232H_3.3V, FT232H_1.8V, and FT232H signals, as well as USB_D+ and USB_D- signals.
- LEDs:** Two LEDs, D4 (UART TX LED) and D5 (UART RX LED), are connected to the FT232RL chip.
- Resistors and Capacitors:** Various resistors (R40, R50, R72, R73, R13, R14, R15, R51, C49, C56) and capacitors (C70, C71) are used for timing, signal conditioning, and power management.

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The schematic diagram illustrates the internal connections of the ADV7511W board. The central component is the ADV7511W IC, which is connected to various external components and connectors.

Connectors and Pins:

- ADV7511W_PCLK:** Connected to pin 1 of the ADV7511W IC.
- ADV7511W_1.8V:** Connected to pin 2 of the ADV7511W IC.
- ADV7511W_DE:** Connected to pin 3 of the ADV7511W IC.
- ADV7511W_HS:** Connected to pin 4 of the ADV7511W IC.
- ADV7511W_VHS:** Connected to pin 5 of the ADV7511W IC.
- HPD:** Connected to pin 16 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 48 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 47 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 46 of the ADV7511W IC.
- ADV7511W_REDA:** Connected to pin 45 of the ADV7511W IC.
- ADV7511W_REDB:** Connected to pin 44 of the ADV7511W IC.
- ADV7511W_REDC:** Connected to pin 43 of the ADV7511W IC.
- ADV7511W_BLUEA:** Connected to pin 42 of the ADV7511W IC.
- ADV7511W_BLUEB:** Connected to pin 41 of the ADV7511W IC.
- ADV7511W_BLUEC:** Connected to pin 40 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 39 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 38 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 37 of the ADV7511W IC.
- ADV7511W_REDA:** Connected to pin 36 of the ADV7511W IC.
- ADV7511W_REDB:** Connected to pin 35 of the ADV7511W IC.
- ADV7511W_REDC:** Connected to pin 34 of the ADV7511W IC.
- ADV7511W_BLUEA:** Connected to pin 33 of the ADV7511W IC.
- ADV7511W_BLUEB:** Connected to pin 32 of the ADV7511W IC.
- ADV7511W_BLUEC:** Connected to pin 31 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 30 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 29 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 28 of the ADV7511W IC.
- ADV7511W_REDA:** Connected to pin 27 of the ADV7511W IC.
- ADV7511W_REDB:** Connected to pin 26 of the ADV7511W IC.
- ADV7511W_REDC:** Connected to pin 25 of the ADV7511W IC.
- ADV7511W_BLUEA:** Connected to pin 24 of the ADV7511W IC.
- ADV7511W_BLUEB:** Connected to pin 23 of the ADV7511W IC.
- ADV7511W_BLUEC:** Connected to pin 22 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 21 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 20 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 19 of the ADV7511W IC.
- ADV7511W_REDA:** Connected to pin 18 of the ADV7511W IC.
- ADV7511W_REDB:** Connected to pin 17 of the ADV7511W IC.
- ADV7511W_REDC:** Connected to pin 16 of the ADV7511W IC.
- ADV7511W_BLUEA:** Connected to pin 15 of the ADV7511W IC.
- ADV7511W_BLUEB:** Connected to pin 14 of the ADV7511W IC.
- ADV7511W_BLUEC:** Connected to pin 13 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 12 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 11 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 10 of the ADV7511W IC.
- ADV7511W_REDA:** Connected to pin 9 of the ADV7511W IC.
- ADV7511W_REDB:** Connected to pin 8 of the ADV7511W IC.
- ADV7511W_REDC:** Connected to pin 7 of the ADV7511W IC.
- ADV7511W_BLUEA:** Connected to pin 6 of the ADV7511W IC.
- ADV7511W_BLUEB:** Connected to pin 5 of the ADV7511W IC.
- ADV7511W_BLUEC:** Connected to pin 4 of the ADV7511W IC.
- ADV7511W_GREENA:** Connected to pin 3 of the ADV7511W IC.
- ADV7511W_GREENB:** Connected to pin 2 of the ADV7511W IC.
- ADV7511W_GREENC:** Connected to pin 1 of the ADV7511W IC.

Other Components:

- R60:** A resistor connected to the HPD pin (pin 16) of the ADV7511W IC.
- R9:** A resistor connected to the HPD pin (pin 16) of the ADV7511W IC.
- R10:** A resistor connected to the HPD pin (pin 16) of the ADV7511W IC.
- U3:** A component connected to the ADV7511W IC.
- SDA:** Connected to pin 37 of the ADV7511W IC.
- SCL:** Connected to pin 36 of the ADV7511W IC.
- DDCSDA:** Connected to pin 35 of the ADV7511W IC.
- DDCSCL:** Connected to pin 34 of the ADV7511W IC.
- CEC_CLK:** Connected to pin 33 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 32 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 31 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 30 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 29 of the ADV7511W IC.
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- CEC_DATA:** Connected to pin 5 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 4 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 3 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 2 of the ADV7511W IC.
- CEC_DATA:** Connected to pin 1 of the ADV7511W IC.

Notes:

- As close as possible to pin1
- When PD pulled low I2C slave address = 0x72