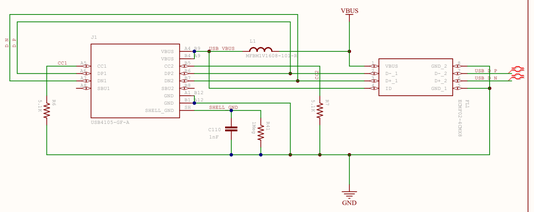
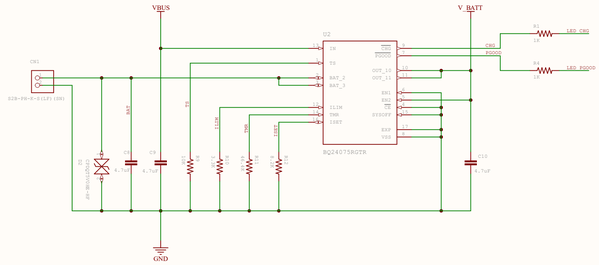
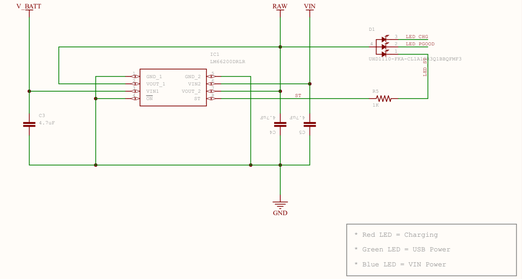
USB Connector



Battery Charging

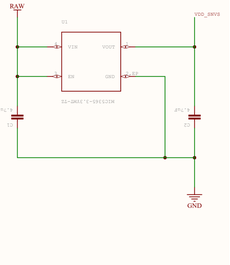


Ideal Diode

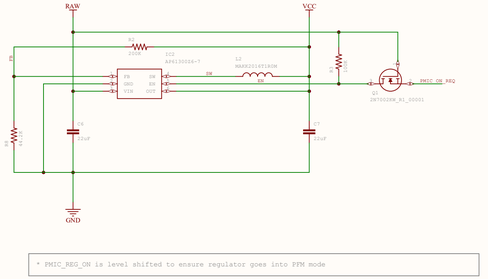


* Red LED = Charging
* Green LED = USB Power
* Blue LED = VIN Power

SNVS Reg



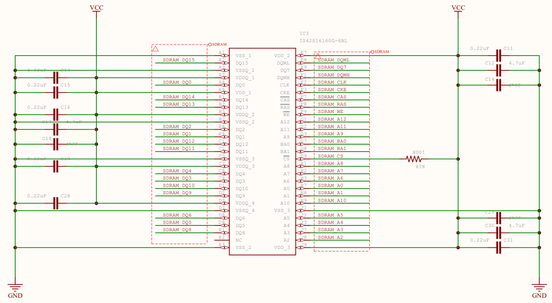
Main Regulator



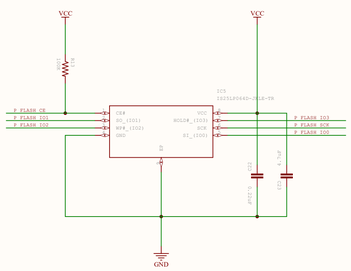
* PMIC_REG_ON is level shifted to ensure regulator goes into PFM mode

16-BIT SDRAM

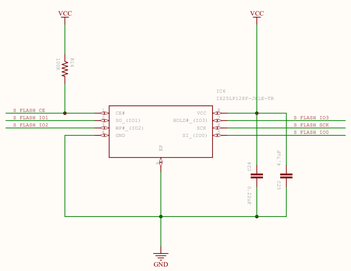
* CKE is pulled down by 100K on the RT1052



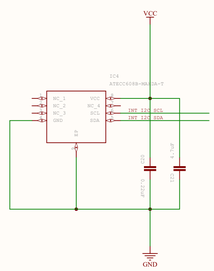
Program QSPI Flash



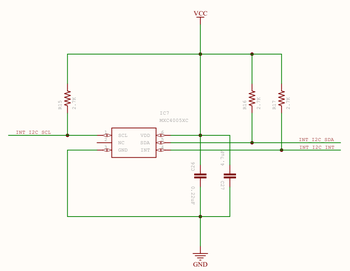
Storage QSPI Flash



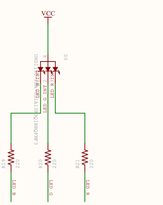
Security



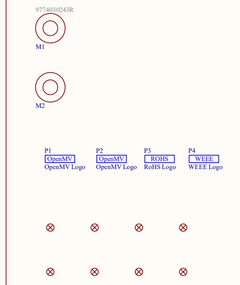
Accelerometer



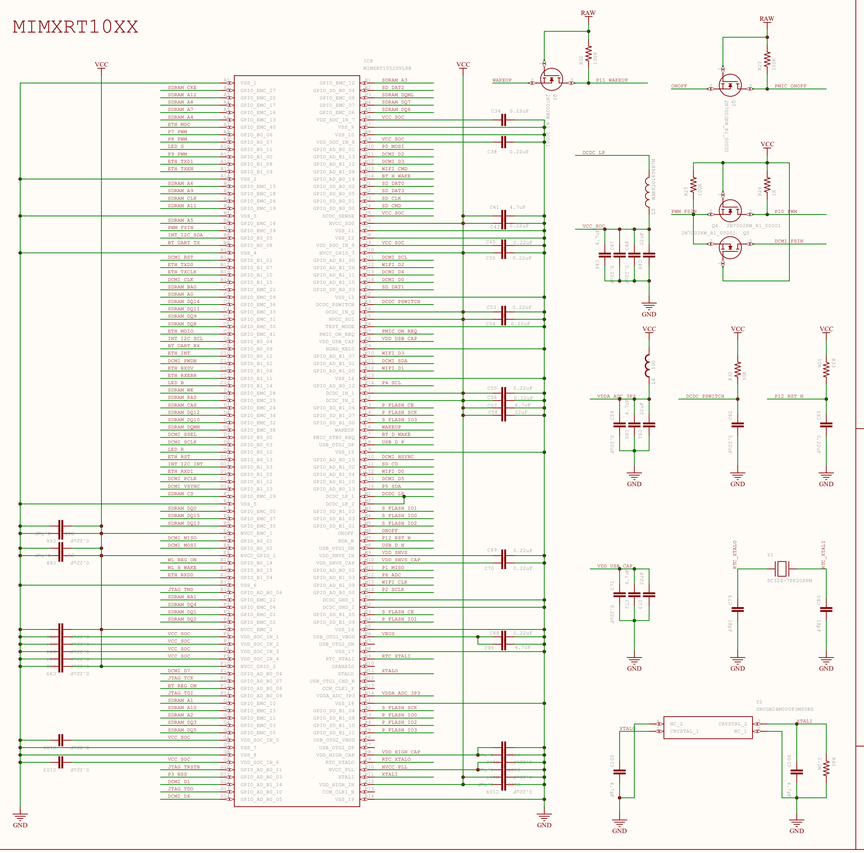
RGB LED



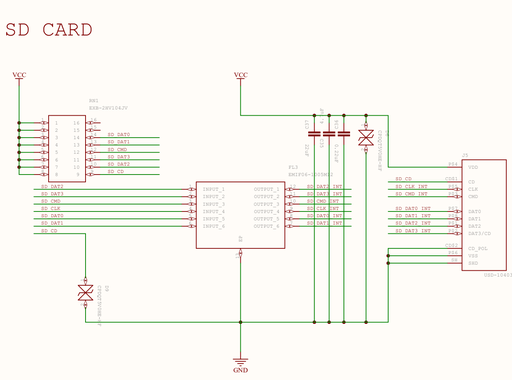
Mechanical



MIMXRT10XX

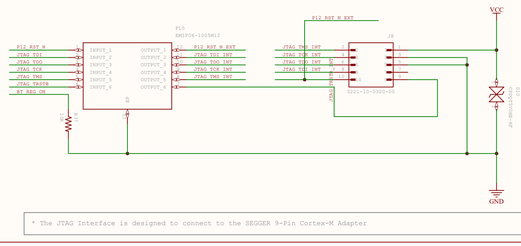


SD CARD



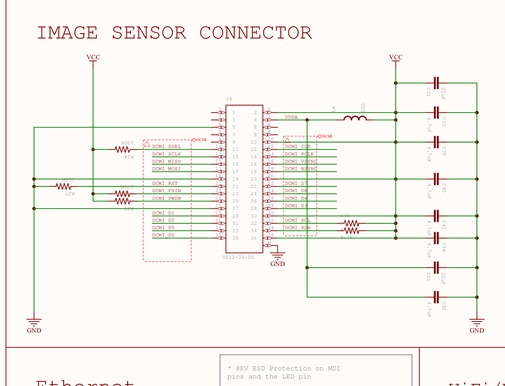
JTAG

* JTAG_MOD is used for BT_REG_ON - the pin is sampled on the rising edge of reset and is pulled low by 10K

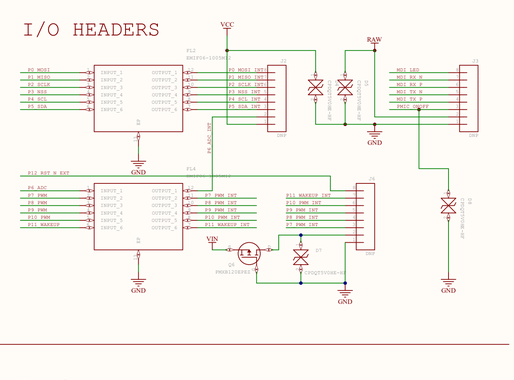


* The JTAG Interface is designed to connect to the SEGGER 9-Pin Cortex-M Adapter

IMAGE SENSOR CONNECTOR

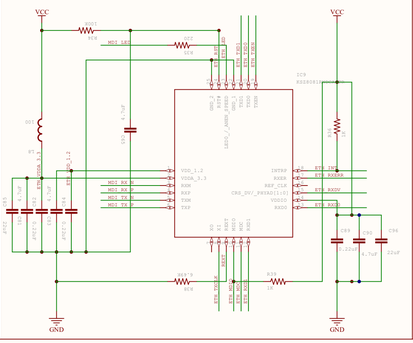


I/O HEADERS

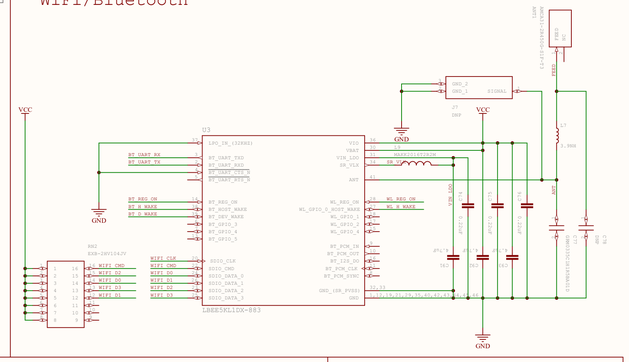


Ethernet

* 8KV ESD Protection on MDI pins and the LED pin



WiFi/Bluetooth



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