

Sheet: PowerSuply_PMIC1

Power Suply PMIC1

File: Power_Suply_PMIC1.sch

Sheet: PowerSuply_PMIC2

Power Suply PMIC2

File: Power_Suply_PMIC2.sch

Sheet: Ethernet

Ethernet

File: Ethernet.sch

Sheet: USB2.0 & USB3.0

USB

File: usb.sch

Sheet: iMX8QM Powers

iMX8QM Power

File: iMX8QM_Power.sch

Sheet: SCU Reset

iMX8QM SCU

File: iMX8QM Main.sch

Sheet: Power_GND

iMX8QM Ground

File: iMX8QM_GND.sch

Sheet: CSI

CSI

File: csi.sch

Sheet: LPDDR4

Memory

File: iMX8QM_LPDDR4.sch

Sheet: EMMC SDCARD Flash

EMMC SDCARD FLASH

File: emmc_card_flash.sch

Sheet: LEDES & CONNECTORS

connectors LED's unused

File: others.sch

Sheet: Sata & PCIe

SATA PCIe

File: sata_pcie.sch

Sheet: HDMI

HDMI

File: hdmi.sch

<c> 2020
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Sheet: /
File: iMX8QM-SOM_Rev_A.sch

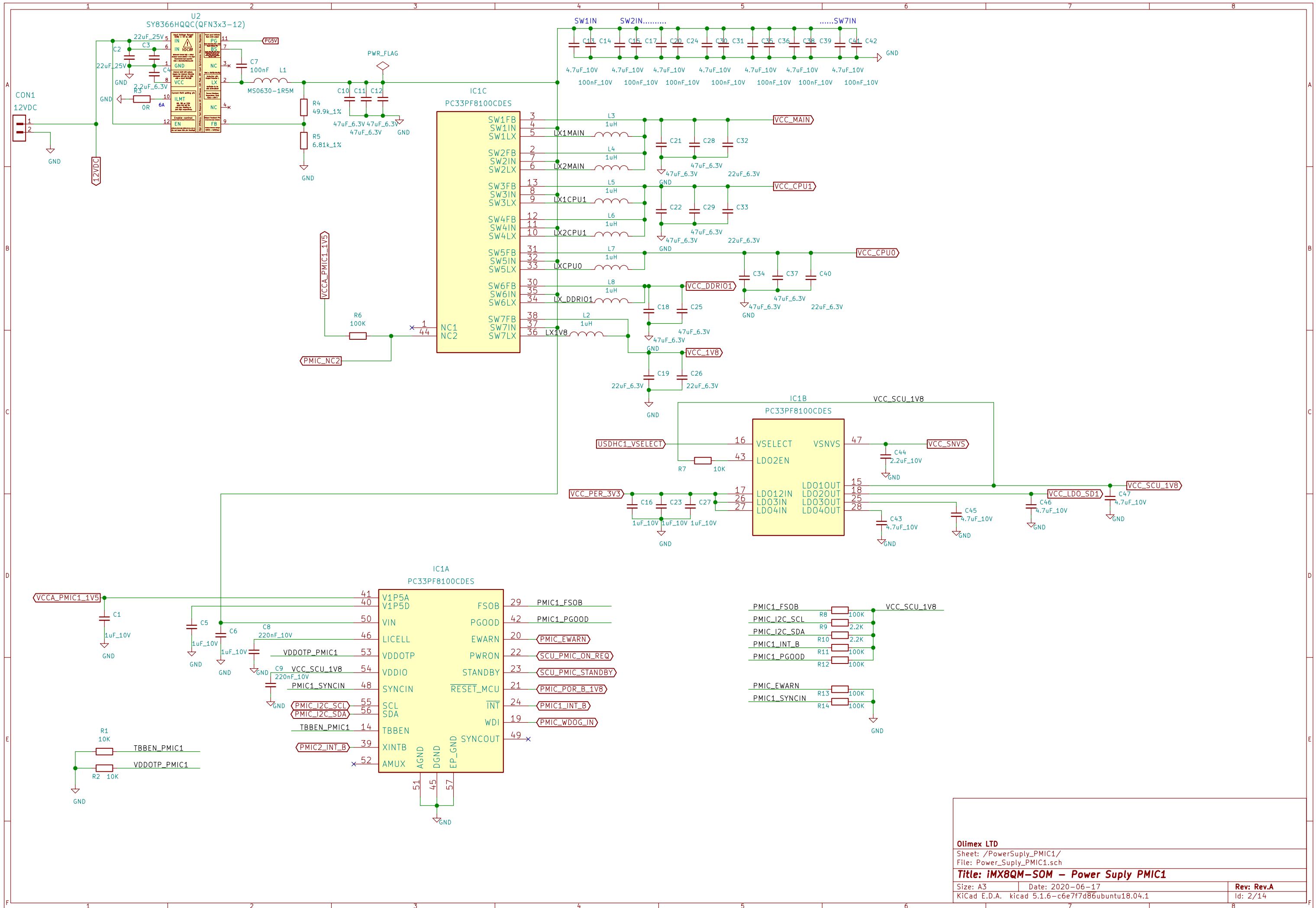
Title: iMX8QM-SOM

Size: A4 Date: 2020-06-17

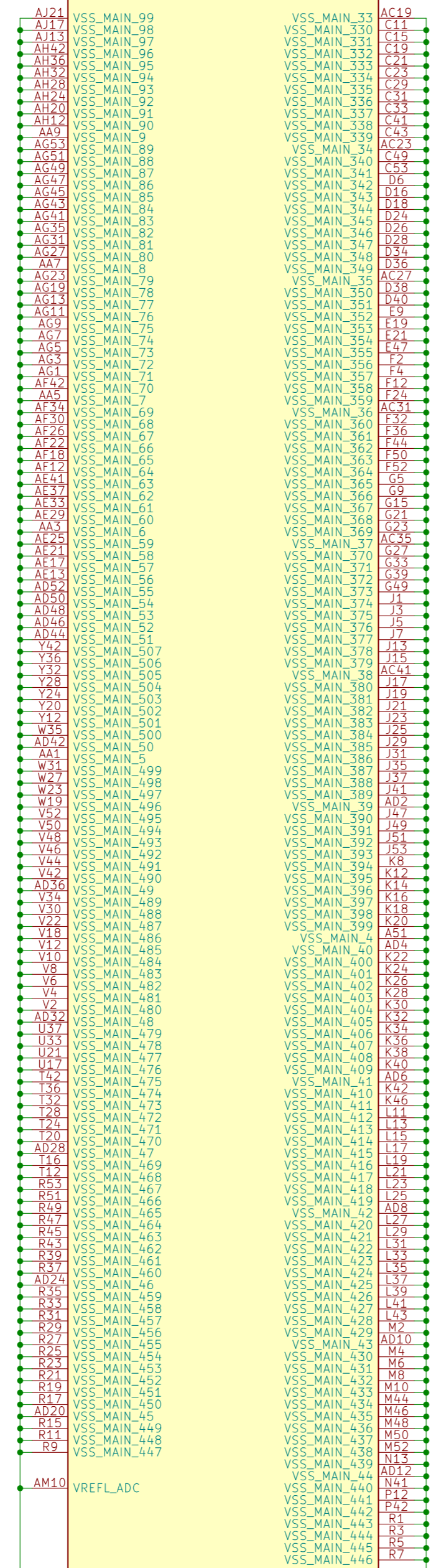
KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

Rev: Rev_A

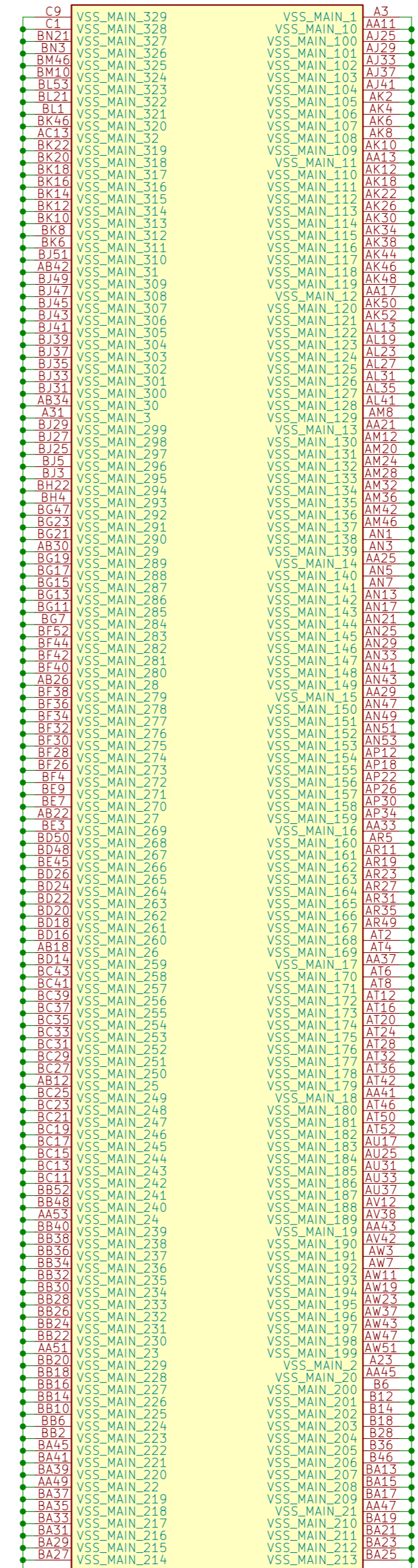
Id: 1/14

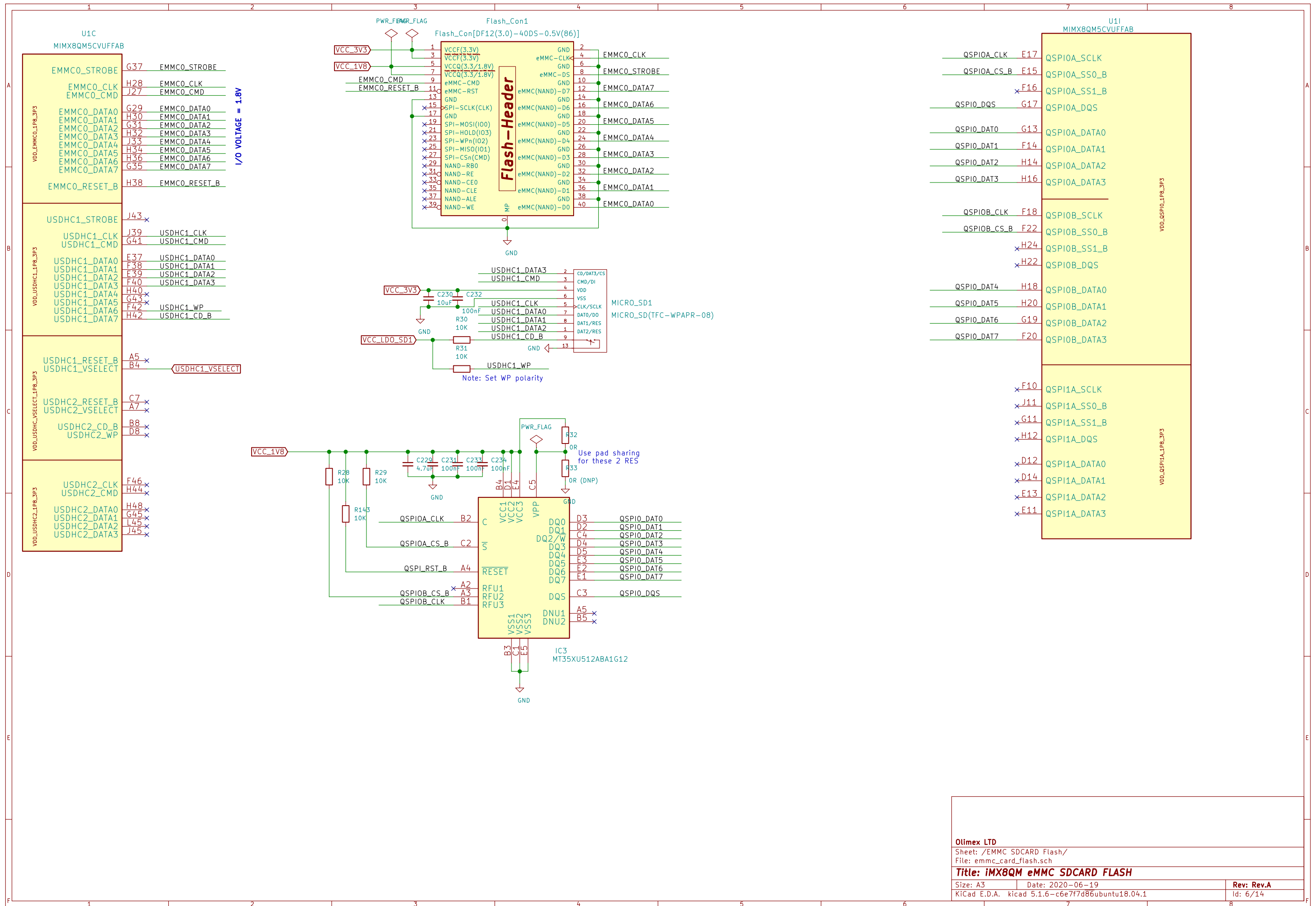


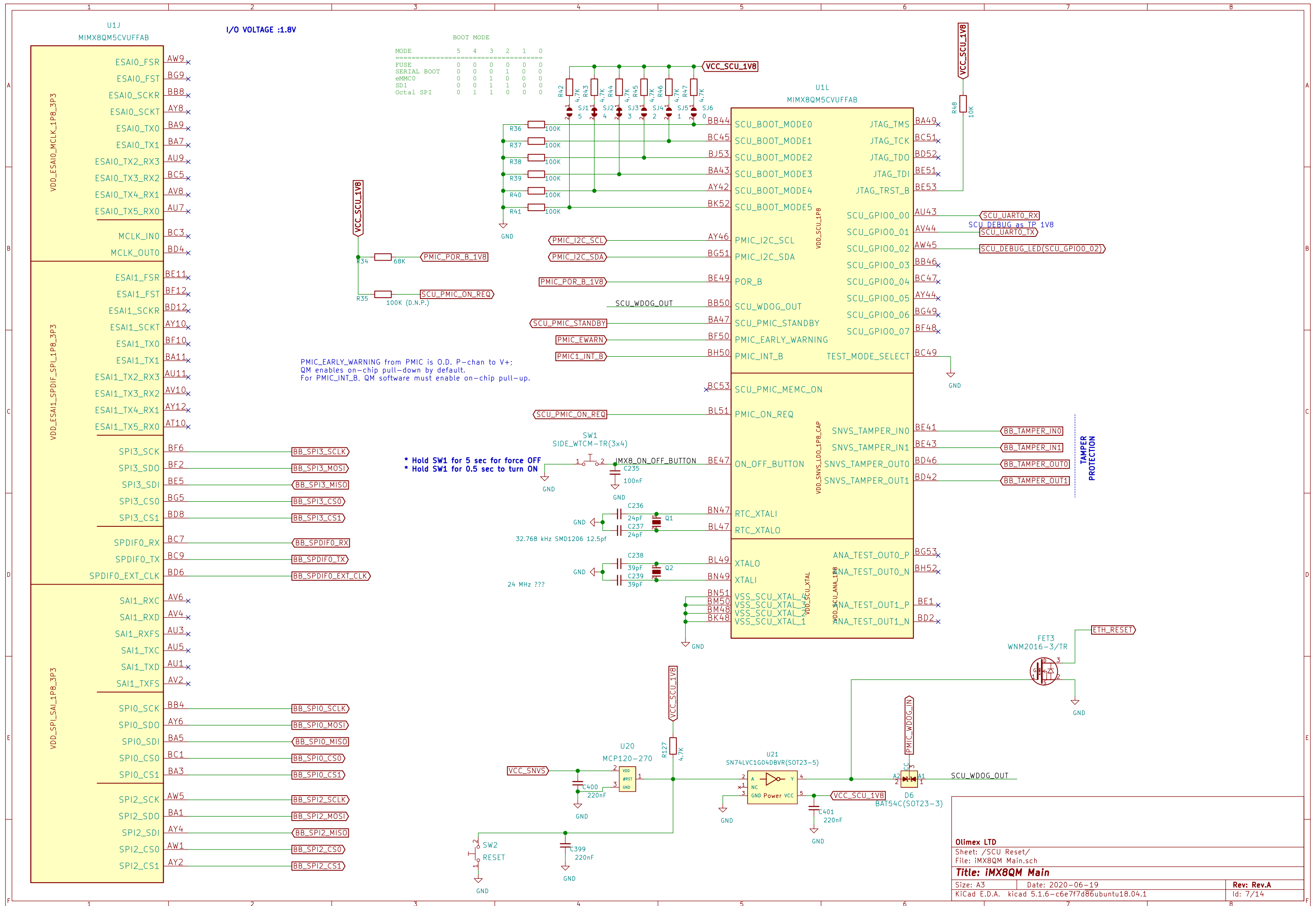
U1R
MIMXBQM5CVUFFAB



U1S
MIMXBQM5CVUFFAB





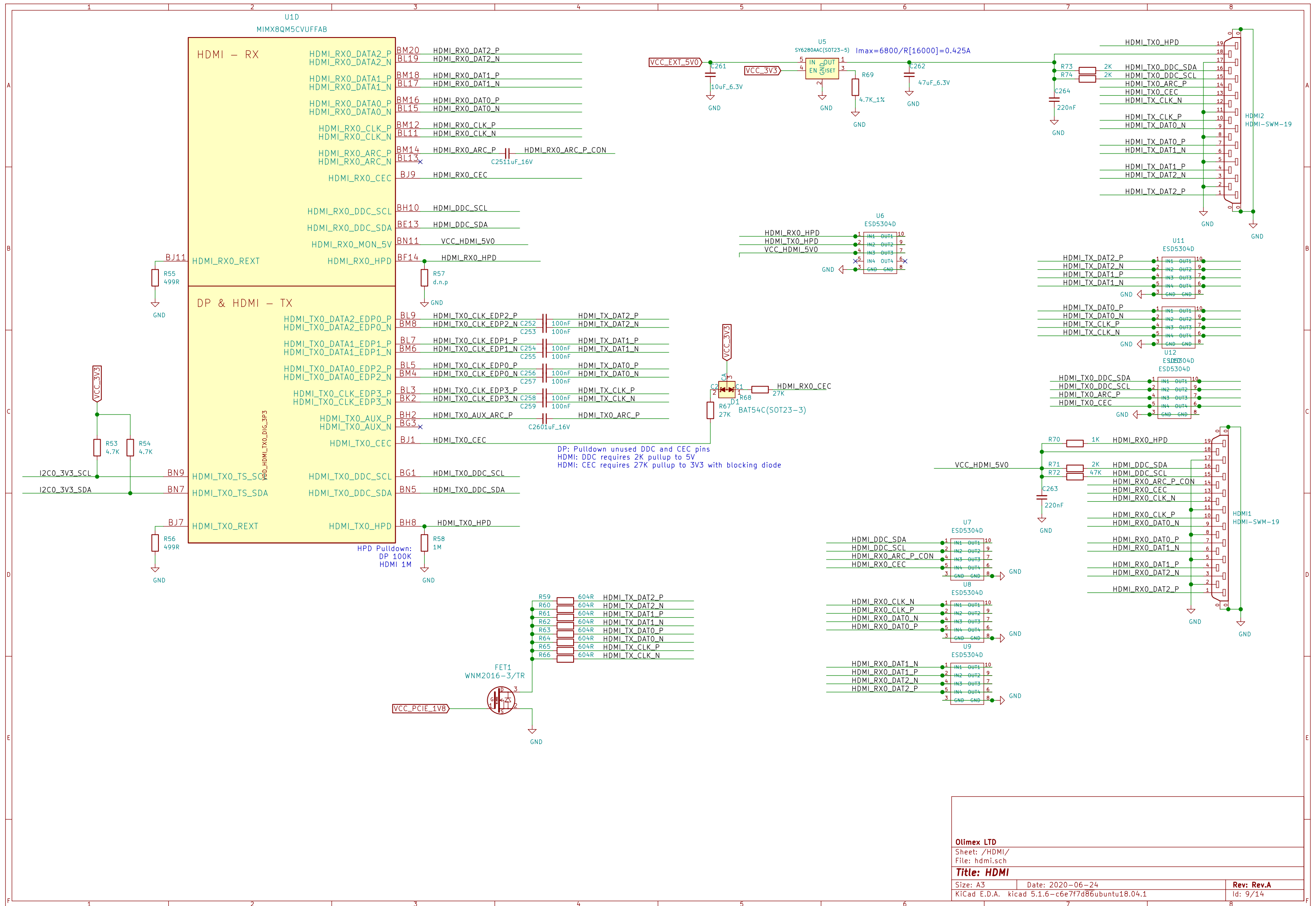


BOOT MODE

MODE	5	4	3	2	1	0
FUSE	0	0	0	0	0	0
SERIAL BOOT	0	0	0	1	0	0
eMMC0	0	0	1	0	0	0
SD1	0	0	1	1	0	0
Octal SPI	0	1	1	0	0	0

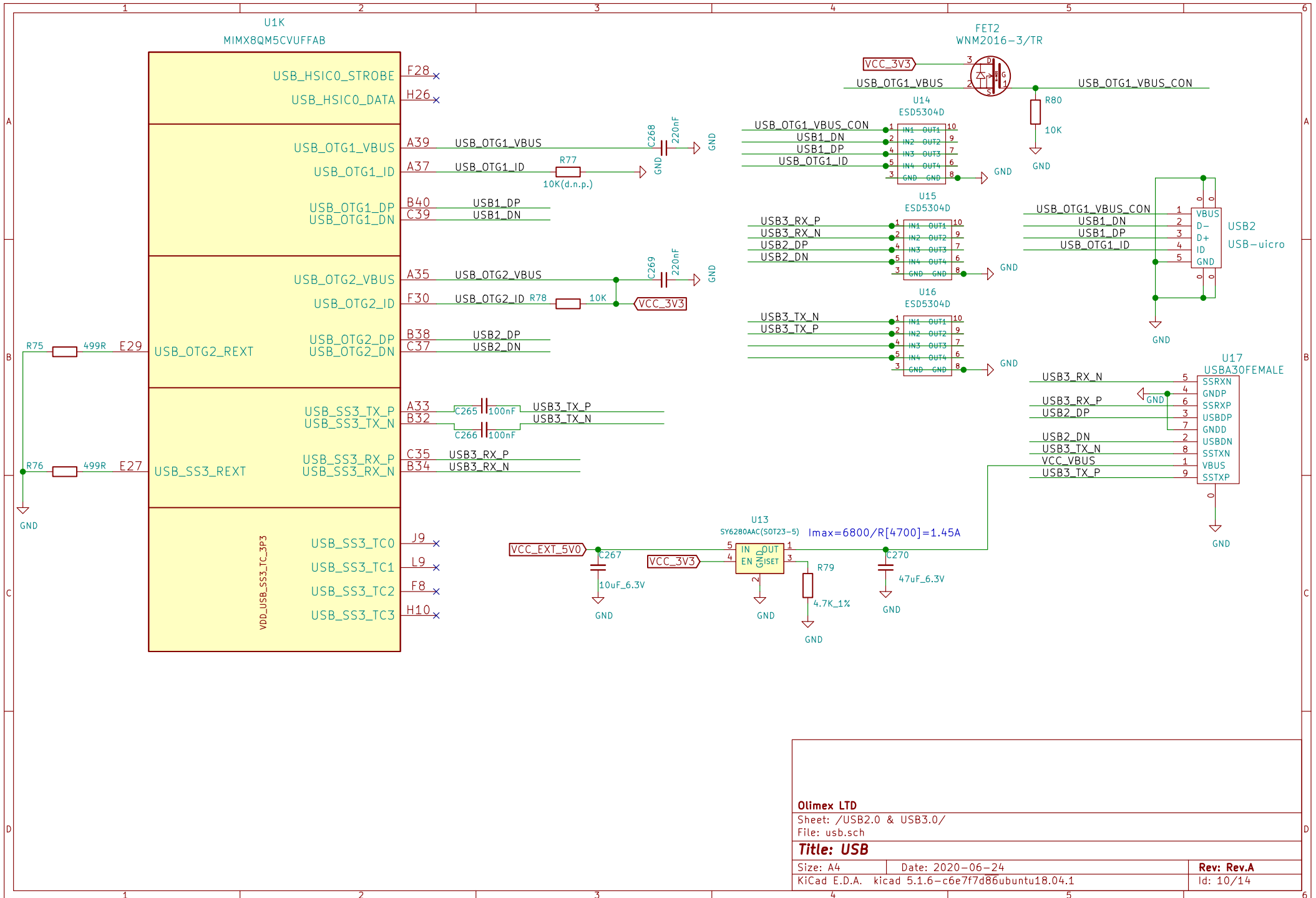
PMIC_EARLY_WARNING from PMIC is O.D. P-chan to V+;
 QM enables on-chip pull-down by default.
 For PMIC_INT_B, QM software must enable on-chip pull-up.

* Hold SW1 for 5 sec for force OFF
 * Hold SW1 for 0.5 sec to turn ON



DP: Pulldown unused DDC and CEC pins
 HDMI: DDC requires 2K pullup to 5V
 HDMI: CEC requires 27K pullup to 3V3 with blocking diode

HPD Pulldown:
 DP 100K
 HDMI 1M



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Sheet: /USB2.0 & USB3.0/

File: usb.sch

Title: USB

Size: A4

Date: 2020-06-24

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

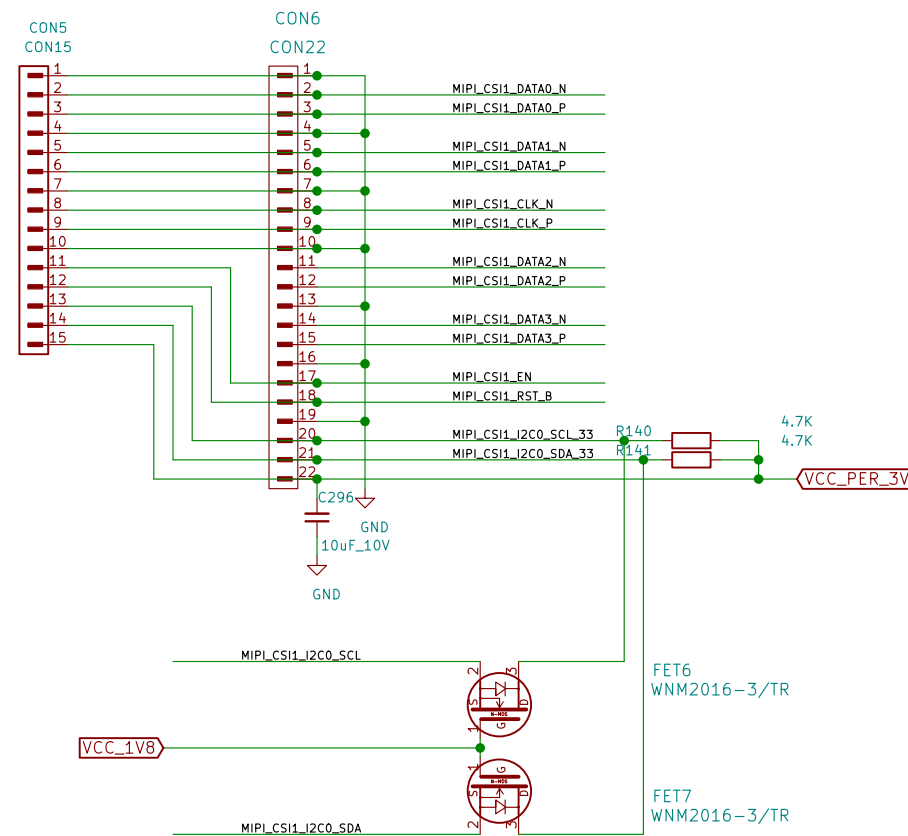
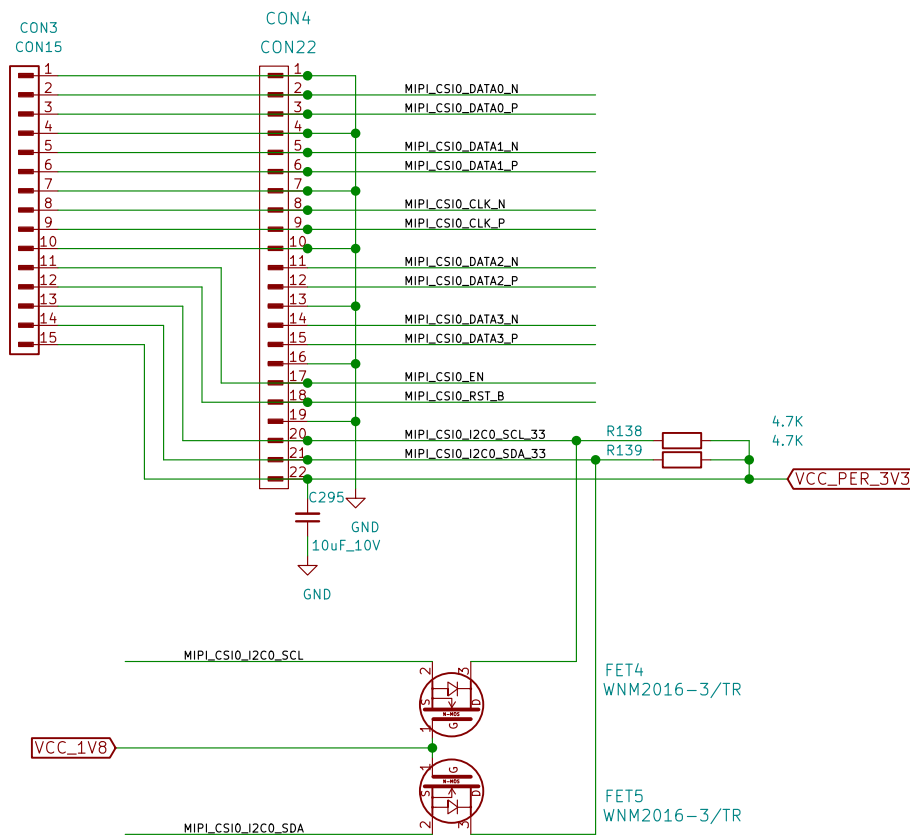
Rev: Rev.A

Id: 10/14

MIPI CSI CONNECTORS

U1F MIMX8QM55CVUFFAB	
MIPI_CSI0_CLK_P	BF20 MIPI_CSI0_CLK_P
MIPI_CSI0_CLK_N	BE21 MIPI_CSI0_CLK_N
MIPI_CSI0_DATA0_P	BF22 MIPI_CSI0_DATA0_P
MIPI_CSI0_DATA0_N	BE23 MIPI_CSI0_DATA0_N
MIPI_CSI0_DATA1_P	BF18 MIPI_CSI0_DATA1_P
MIPI_CSI0_DATA1_N	BE19 MIPI_CSI0_DATA1_N
MIPI_CSI0_DATA2_P	BF24 MIPI_CSI0_DATA2_P
MIPI_CSI0_DATA2_N	BE25 MIPI_CSI0_DATA2_N
MIPI_CSI0_DATA3_P	BF16 MIPI_CSI0_DATA3_P
MIPI_CSI0_DATA3_N	BE17 MIPI_CSI0_DATA3_N
MIPI_CSI0_GPI00_00	BL23 MIPI_CSI0_RST_B
MIPI_CSI0_GPI00_01	BM22 MIPI_CSI0_EN
MIPI_CSI0_I2C0_SCL	BH24 MIPI_CSI0_I2C0_SCL
MIPI_CSI0_I2C0_SDA	BN19 MIPI_CSI0_I2C0_SDA
MIPI_CSI0_MCLK_OUT	BJ23
100-Ohm differential pairs	
MIPI_CSI1_CLK_P	BJ17 MIPI_CSI1_CLK_P
MIPI_CSI1_CLK_N	BH16 MIPI_CSI1_CLK_N
MIPI_CSI1_DATA0_P	BJ19 MIPI_CSI1_DATA0_P
MIPI_CSI1_DATA0_N	BH18 MIPI_CSI1_DATA0_N
MIPI_CSI1_DATA1_P	BJ15 MIPI_CSI1_DATA1_P
MIPI_CSI1_DATA1_N	BH14 MIPI_CSI1_DATA1_N
MIPI_CSI1_DATA2_P	BJ21 MIPI_CSI1_DATA2_P
MIPI_CSI1_DATA2_N	BH20 MIPI_CSI1_DATA2_N
MIPI_CSI1_DATA3_P	BJ13 MIPI_CSI1_DATA3_P
MIPI_CSI1_DATA3_N	BH12 MIPI_CSI1_DATA3_N
MIPI_CSI1_GPI00_00	BN15 MIPI_CSI1_RST_B
MIPI_CSI1_GPI00_01	BN13 MIPI_CSI1_EN
MIPI_CSI1_I2C0_SCL	BN17 MIPI_CSI1_I2C0_SCL
MIPI_CSI1_I2C0_SDA	BE15 MIPI_CSI1_I2C0_SDA
MIPI_CSI1_MCLK_OUT	BN23

MIPI_CSI1_I2C0_SDA	R95	4.7K
MIPI_CSI1_I2C0_SCL	R96	4.7K
MIPI_CSI0_I2C0_SDA	R97	4.7K
MIPI_CSI0_I2C0_SCL	R98	4.7K
MIPI_CSI0_RST_B	R99	68K
MIPI_CSI1_RST_B	R100	68K



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Sheet: /CSI/
File: csi.sch

Title: MIPI_CSI_CONNECTORS

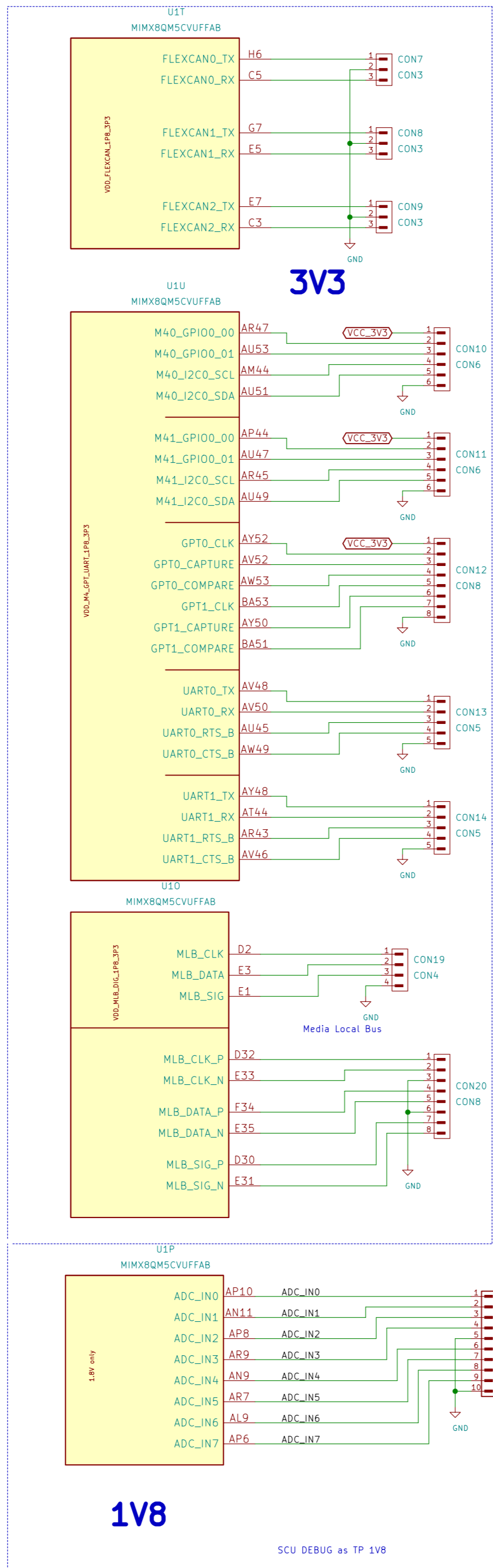
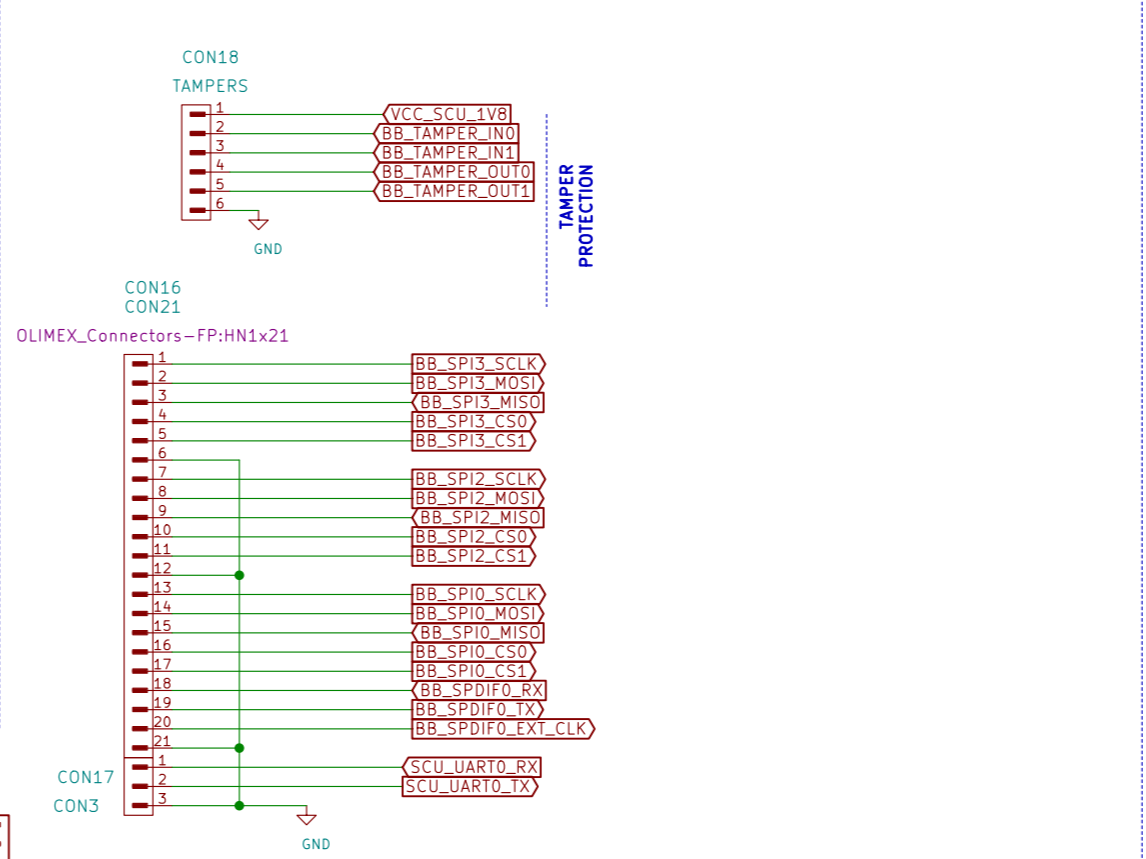
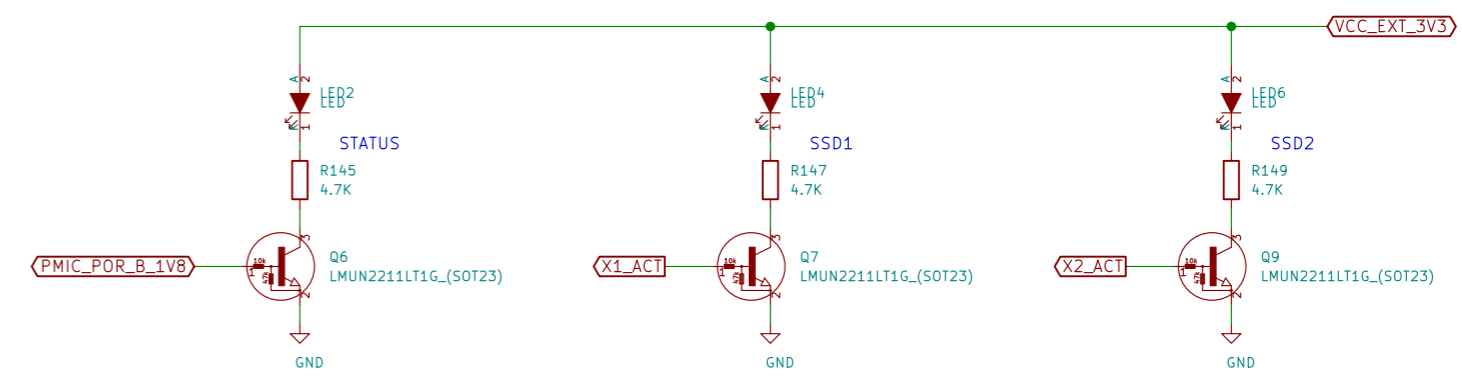
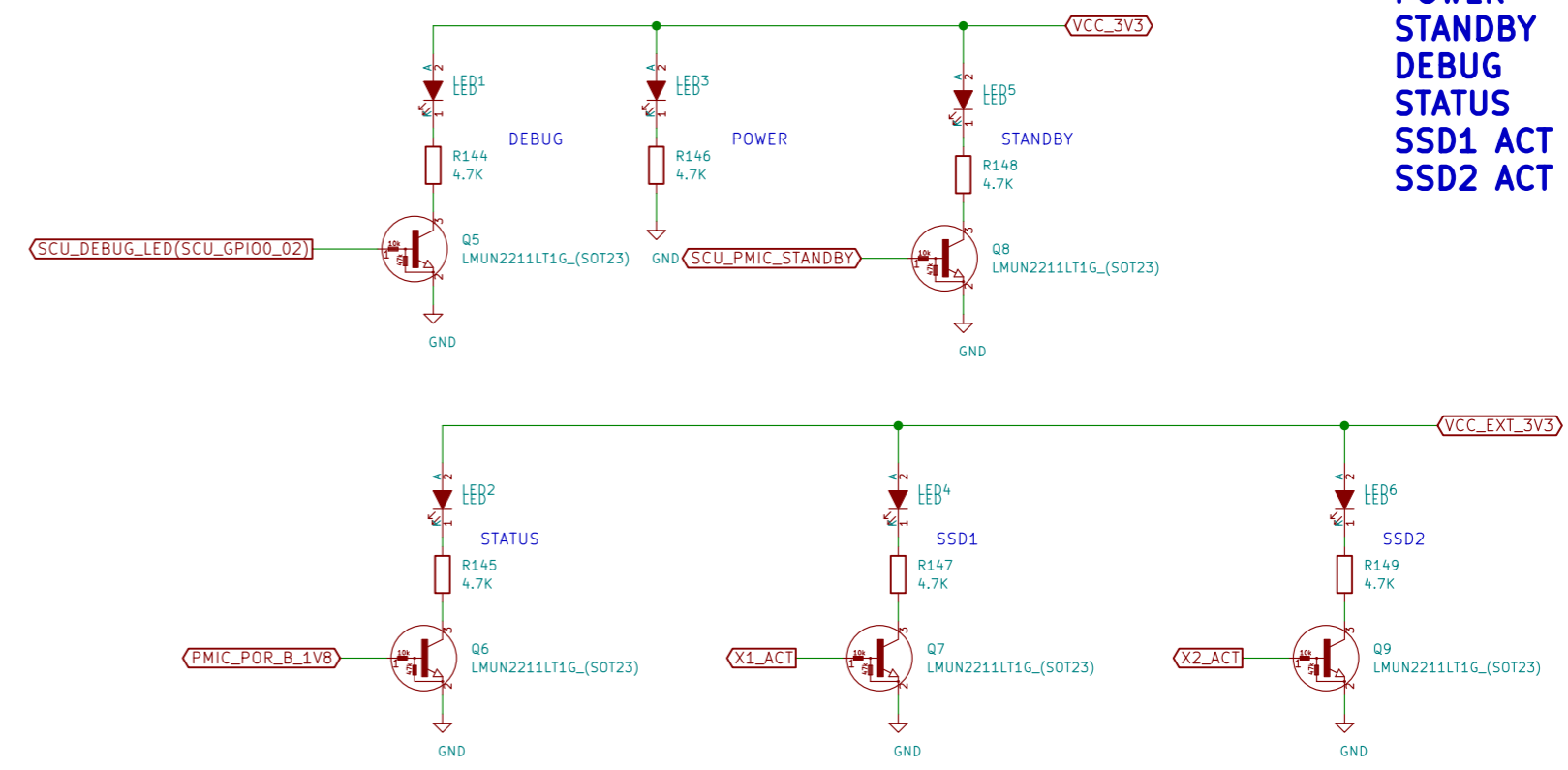
Size: A3 Date: 2020-06-25

KiCad E.D.A. kicad 5.1.6-c6e7f7d86ubuntu18.04.1

Rev: Rev.A

Id: 12/14

POWER
STANDBY
DEBUG
STATUS
SSD1 ACT
SSD2 ACT



1V8

SCU DEBUG as TP 1V8