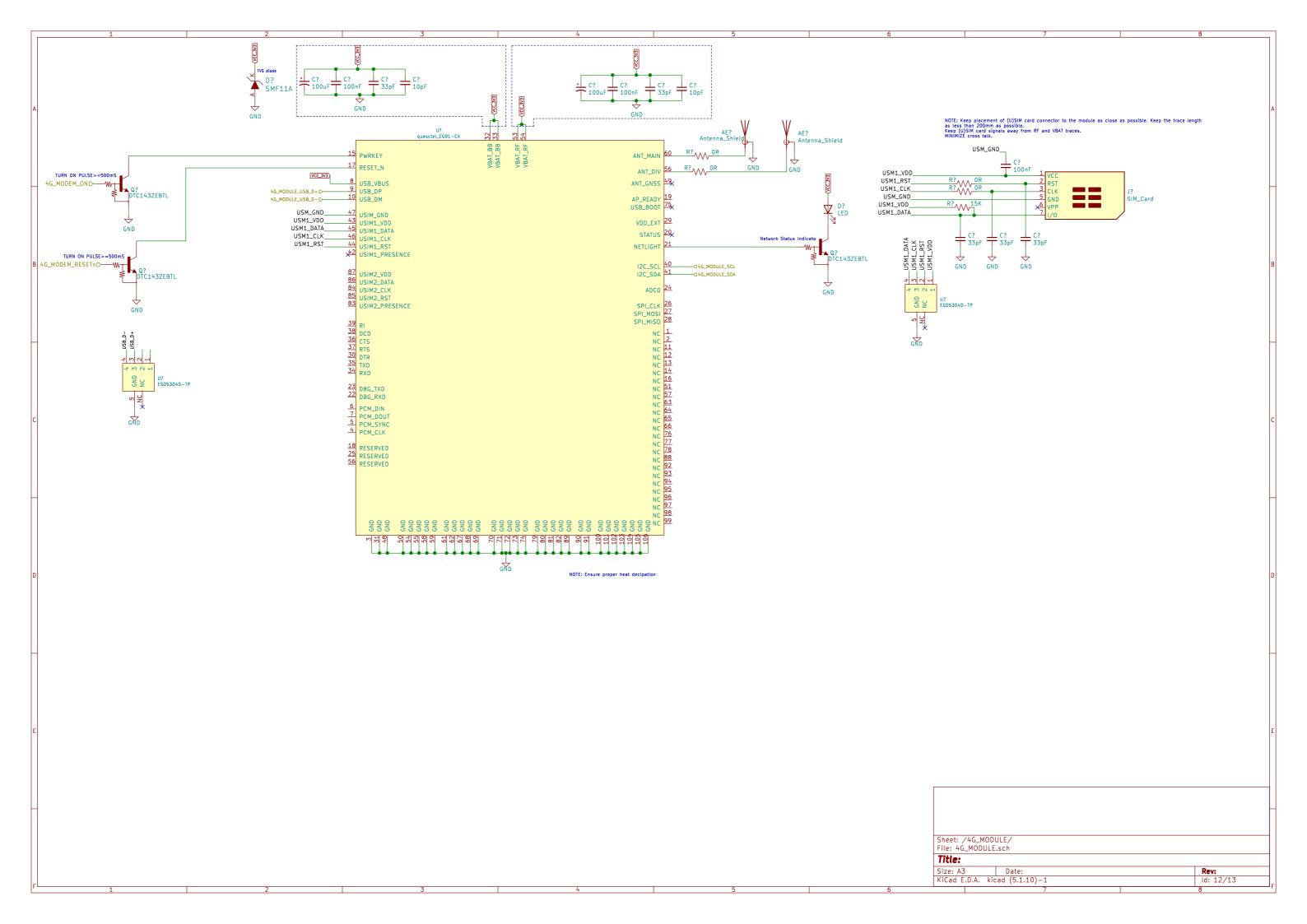


## LPDDR3\_RAM POWER F1 VDD1\_1 F12 VDD1\_2 G4 VDD1\_3 G9 VDD1\_4 T9 VDD1\_5 U1 VDD1\_7 VDD1\_8 VCC1V8\_DDR VSS\_1 A3 A10 VSS\_2 C1 VSS\_3 C5 VSS\_6 C8 VSS\_5 D4 VSS\_6 D9 VSS\_10 D11 VSS\_11 E1 VSS\_12 E8 VSS\_15 G3 VSS\_14 C5 VSS\_15 G6 VSS\_17 G5 VSS\_18 G6 VSS\_19 G10 VSS\_20 J1 VSS\_21 J1 VSS\_21 J1 VSS\_22 J1 VSS\_23 VSS\_23 VSS\_23 VSS\_24 VSS\_25 K2 VSS\_26 VSS\_27 VSS\_28 K11 VSS\_27 VSS\_28 VSS\_28 VSS\_29 VSS\_28 VSS\_49 VSS\_50 VSS\_40 VSS\_50 ABB C103 C106 TuF 100nF VCC\_DDR DECOUPLING CAPACITORS VCC\_DDR) C101 22uF C104 C109 C109 VCC\_DDR DECOUPLING CAPACITORS VCCOV6\_DDR C108 C110 C112 C114 C116 C118 C120 1UF 100nF 100nF 100nF 100nF C132 C134 C136 C138 C140 C142 C144 C100nF T100nF T100nF T100nF C100 C102 C102 C125 \_ C127 C129 A4 VDD2\_1 A9 VDD2\_2 F5 VDD2\_3 F8 VDD2\_4 H1 VDD2\_5 H5 VDD2\_6 VDD2\_6 H8 VDD2\_7 H12 VDD2\_7 VCC\_DDR) 3.3V TO 1.8V@2A H8 VDD2\_7 VDD2\_8 H12 VDD2\_9 K10 VDD2\_11 K10 VDD2\_11 N1 VDD2\_12 N1 VDD2\_13 VDD2\_15 N12 VDD2\_15 N12 VDD2\_16 R1 VDD2\_16 R8 VDD2\_19 R12 VDD2\_18 R8 VDD2\_19 R12 VDD2\_20 UDS VDD2\_21 UB AB4 VDD2\_23 AB9 VDD2\_24 3.3V TO 0.6V@2A L11 2.2uH WPN4020H2R2MT +3V3 TLV62569DDC L10 2.2uH U5 TLV62569DDC WPN4020H2R2MT C146 C148 ₹R26 200K ± C107 +4.7uF GND GND R25 20K GND ₹R27 100K GND GND + C105 GND GND GND DNU\_7 DNU\_8 AA12 AA12 AB12 AB12 DNU\_10 DNU\_11 AB12 DNU\_12 ×A1 ×A2 ×A11 DNU\_1 DNU\_2 ×A11 DNU\_3 ×A12 DNU\_4 ×B1 DNU\_5 DNU\_6 Sheet: /RK3566\_LPDDR3/LPDDR4\_POWER/ File: LPDDR4\_POWER.sch Title: Size: A3 Date: KiCad E.D.A. kicad (5.1.10)-1

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U1C RK3566 A32 EMMC\_D0 GPIO1\_B4\_DISPLAY\_ONED LCD\_1\_EN\_GPI01\_B5\_C7D B27 EMMC\_D1 B32 EMMC\_D2 TP\_INT\_GPI01\_B6\_DISPLAY\_ONE D-B29 EMMC\_D3 SDMMC1\_D3 1A20 QSDMMC1\_D3 BL\_EN\_GPI01\_B7\_DISPLAY\_ONED-B33 EMMC\_D4 LCD\_RST\_L\_GPI01\_C0\_DISPLAY\_ONE D SDMMC1\_CMD B35 \_\_\_\_GSDMMC1\_CMD A30 EMMC\_D5 TP\_RST\_L\_GPI01\_C2\_DISPLAY\_ONE D-SDMMC1\_CLK B37 \_\_\_\_GSDMMC1\_CLK B30 EMMC\_D6 SDMMC1\_PWREN SDMMC1\_DET B34 \_\_QWIFI\_REG\_ON\_H\_GPI02\_B1 \_\_QWIFI\_WAKE\_HOST\_H\_GPI02\_B2 A33 EMMC\_D7 A27 EMMC\_CMD EMMC\_CLKOUT 1A16 EMMC\_DATA\_STROBE 1B16 EMMC\_RSTn 1A15 FSPI\_CLK 1A17 FSPI\_D0 1A18 FSPI\_D1
1B17 FSPI\_CSOn 1C15 FSPI\_D3 1C13 VCCI02 UART6\_TX\_M1D 1E20 SDMMCO\_D0
UART6\_RX\_M1D 1F19 SDMMCO\_D1 1D20 SDMMC0\_D2 1F18 SDMMC0\_D3 CLK32K\_OUT1\_WIFI SPI3\_CLK\_M1 1U7 SPI3\_MOSI\_M1 AP12 12S3\_LRCK\_M1 1V6 SPI3\_MISO\_M1 1U6 1E19 SDMMCO\_CMD G38 SDMMCO\_CLK VCCIO3 VCCIO\_SD > SPI3\_CS0\_M1 1T6 R37 USB\_OTGO\_DP R38 USB\_OTGO\_DM T38 USB\_OTGO\_VBUSDET USB\_OTGO\_ID GND 1J19 USB\_HOST1\_DP VCCIO7 1N8 4G\_MODULE\_USB\_D+D 1J20 USB\_HOST1\_DM 4G\_MODULE\_USB\_D-D-1J17 USB\_AVDD1\_0V9 SARADC\_VINO 1D17
SARADC\_VIN1 1D17 1H16 USB\_AVDD1\_1V8 SARADC\_VIN2 1B18 1H18 USB\_AVDD1\_3V3 SARADC\_VIN3 1A19 W37 USB3\_HOST1\_SSTXp/SATA1\_TXp SATAL\_TX-D W38 USB3\_HOST1\_SSTXn/SATA1\_TXn SARADC\_AVDD\_1V 1D16 SATA1\_RX+D V38 USB3\_HOST1\_SSRXp/SATA1\_RXp OTP\_VCC18 1D15 SATA1\_RX-D V37 USB3\_HOST1\_SSRXn/SATA1\_RXn MIPI\_CSI\_RX\_DOp AP18
MIPI\_CSI\_RX\_DOn AR18 AA37 PCIE20\_TXp/SATA2\_TXp AA38 PCIE20\_TXn/SATA2\_TXn MIPI\_CSI\_RX\_D1p AR17
MIPI\_CSI\_RX\_D1n AP17 AB37
PCIE20\_RXp/SATA2\_RXp
PCIE20\_RXn/SATA2\_RXn 1K19 PCIE20\_REFCLKP 1K20 PCIE20\_REFCLKn MIPI\_CSI\_RX\_D2p AP15 MIPI\_CSI\_RX\_D2n AR15 1K16 MULTI\_PHY\_AVDD\_0V9 MIPI\_CSI\_RX\_D3p AR14 1K17 MULTI\_PHY\_AVDD\_1V8 MIPI\_CSI\_RX\_D3n AP14 MIPI\_CSI\_RX\_CLK0p 1V9 MIPI\_CSI\_RX\_CLKOn 1U9 V2 USB\_HOST2\_DP V1 USB\_HOST2\_DM MIPI\_CSI\_RX\_CLK1p 1V8 Y2 USB\_HOST3\_DP MIPI\_CSI\_RX\_CLK1n 1U8 Y1 USB\_HOST3\_DM MIPI\_CSI\_RX\_AVDD\_0V9 1N9 1J4 1J3 USB\_AVDD2\_1V8 USB\_AVDD2\_1V8 USB\_AVDD2\_3V3 MIPI\_CSI\_RX\_AVDD\_1V8 1P9 GPI03\_C6\_d 1T2 GPI03\_C7\_d
GPI03\_D0\_d
GPI03\_D1\_d
GPI03\_D1\_d
AN2 1N1 GPI04\_A7\_d 1L2 GPI04\_B0\_d GPIO4\_B1\_d\_TO\_NFC\_REQD AG2 GPIO4\_B1\_d GPI03\_D2\_d AM2 AF2 GPI04\_B2\_d GPI03\_D3\_d AM1 I2C4\_SDA\_MO\_TO\_NFC\_SDAD—I2C4\_SDA\_MO\_TO\_NFC\_SCLD— AE2 GPIO4\_B3\_d GPI03\_D4\_d 1R2 GPI03\_D5\_d 1T1 AF1 GPI04\_B4\_d GPI03\_D6\_d AL2 AD1 GPI04\_B5\_d GPI03\_D7\_d AL1 GPI04\_A0\_d AK2 AC2 GPI04\_B7\_d GPIO4\_A1\_d 1P2 AB2 GPI04\_C0\_d
GPI04\_C1\_d GPI04\_A4\_d GPI04\_A5\_d GPI04\_A6\_d AH2 VCCI06\_1 1L4 VCCI06\_2 1L5 Sheet: /RK3566\_PART\_B/ File: RK3566\_PART\_B.sch Title: Size: A3 Date: KiCad E.D.A. kicad (5.1.10)-: