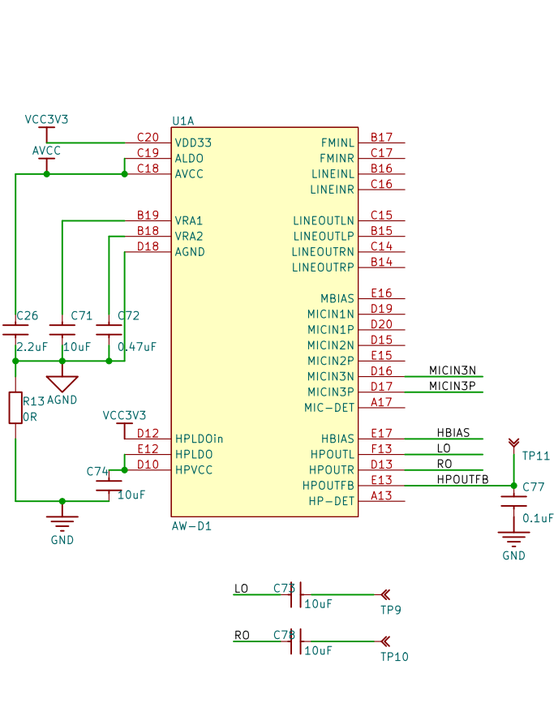
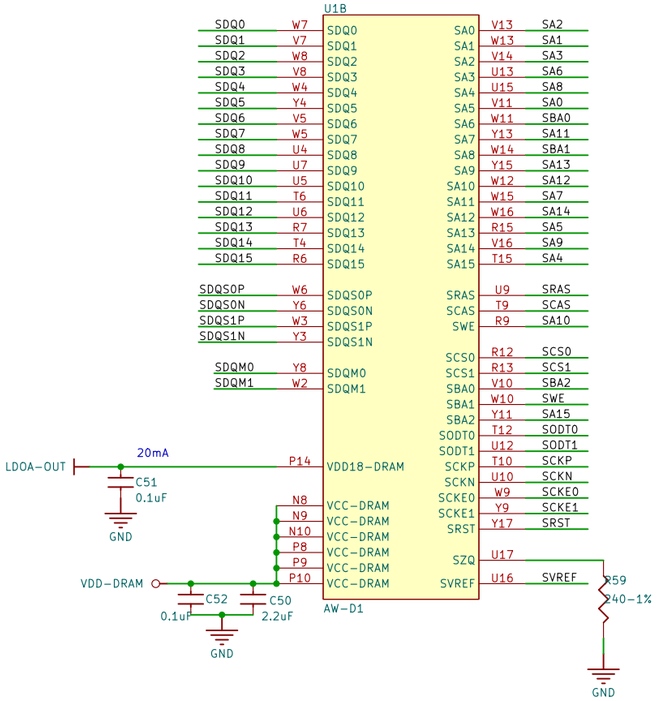
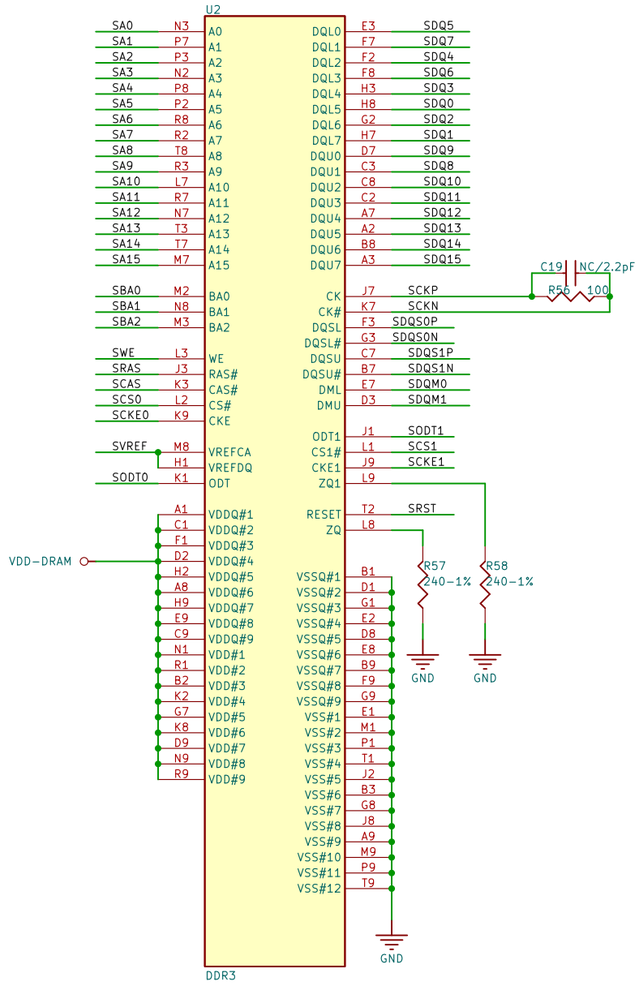
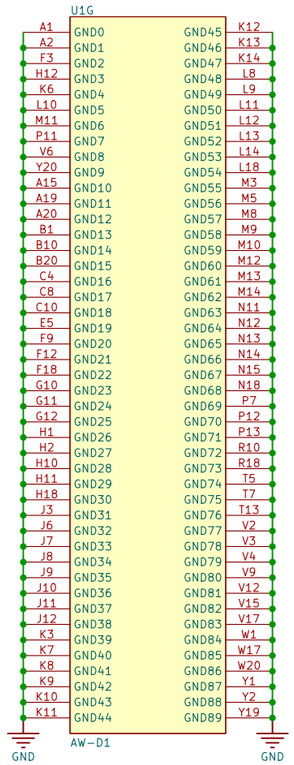
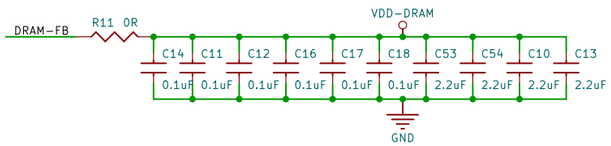
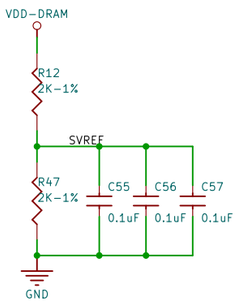

VCC3V3
AVCC
C20
C19
C18
B19
B18
D18
U1A
VDD33
ALDO
AVCC
VRA1
VRA2
AGND
FMINL
FMINR
LINEINL
LINEINR
LINEOUTLN
LINEOUTLP
LINEOUTRN
LINEOUTRP
MBIAS
MICIN1N
MICIN1P
MICIN2N
MICIN2P
MICIN3N
MICIN3P
MIC-DET
HPLDOin
HPLDO
HPVCC
HBIAS
HPOUTL
HPOUTR
HPOUTFB
HP-DET
B17
C17
B16
C16
C15
B15
C14
B14
E16
D19
D20
D15
E15
D16
D17
A17
E17
F13
D13
E13
A13
MICIN3N
MICIN3P
HBIAS
LO
RO
HPOUTFB
C26
2.2uF
C71
10uF
C72
0.47uF
R13
0R
AGND
C74
10uF
GND
VCC3V3
D12
E12
D10
TP11
C77
0.1uF
GND
LO
C75
10uF
TP9
RO
C76
10uF
TP10
U1D
VCC-PG
E4
VCC3V3
C25
0.1uF
GND
PG0/SDC1-CLK/UART3-TX/RGMII-RXCTRL/RMII-CRS-DV/PWM7/PG-EINT0
PG1/SDC1-CMD/UART3-RX/RGMII-RXD0/RMII-RXD0/PWM6/PG-EINT1
PG2/SDC1-D0/UART3-RTS/RGMII-RXD1/RMII-RXD1/UART4-TX/PG-EINT2
PG3/SDC1-D1/UART3-CTS/RGMII-TXCK/RMII-TXCK/UART4-RX/PG-EINT3
PG4/SDC1-D2/UART5-TX/RGMII-TXD0/RMII-TXD0/PWM5/PG-EINT4
PG5/SDC1-D3/UART5-RX/RGMII-TXD1/RMII-TXD1/PWM4/PG-EINT5
PG6/UART1-TX/TWI2-SCK/RGMII-TXD2/PWM1/PG-EINT6
PG7/UART1-RX/TWI2-SDA/RGMII-TXD3/SPDIF-IN/PG-EINT7
PG8/UART1-RTS/TWI1-SCK/RGMII-RXD2/UART3-TX/PG-EINT8
PG9/UART1-CTS/TWI1-SDA/RGMII-RXD3/UART3-RX/PG-EINT9
PG10/PWM3/TWI3-SCK/RGMII-RXCK/CLK-FANOUT0/IR-RX/PG-EINT10
PG11/I2S1-MCLK/TWI3-SDA/EPHY-25M/CLK-FANOUT1/TCON-TRIG/PG-EINT11
PG12/I2S1-LRCK/TWI0-SCK/RGMII-TXCTRL/RMII-TXEN/CLK-FANOUT2/PWM0/UART1-TX/PG-EINT12
PG13/I2S1-BCLK/TWI0-SDA/RGMII-CLKIN/RMII-RXER/PWM2/LEDC-DO/UART1-RX/PG-EINT13
PG14/I2S1-DINO/TWI2-SCK/MDC/I2S1-DOUT1/SPIO-WP/UART1-RTS/PG-EINT14
PG15/I2S1-DOUT0/TWI2-SDA/MDIO/I2S1-DIN1/SPIO-HOLD/UART1-CTS/PG-EINT15
PG16/IR-RX/TCON-TRIG/PWM5/CLK-FANOUT2/SPDIF-IN/LEDC-DO/PG-EINT16
PG17/UART2-TX/TWI3-SCK/PWM7/CLK-FANOUT0/IR-TX/UART0-TX/PG-EINT17
PG18/UART2-RX/TWI3-SDA/PWM6/CLK-FANOUT1/SPDIF-OUT/UART0-RX/PG-EINT18
R1
33R
AP-SDC1-CLK
AP-SDC1-CMD
AP-SDC1-D0
AP-SDC1-D1
AP-SDC1-D2
AP-SDC1-D3
AP-UART1-TX
AP-UART1-RX
AP-UART1-RTS
AP-UART1-CTS
WL-WAKE-AP
CLK-FANOUT1
PG12
PG13
BT-WAKE-AP
BT-RESETN
RGMII-RESET
WL-REG-ON
AP-WAKE-BT
TWI0
AW-D1
U1H
PB0/PWM3/IR-TX/TWI2-SCK/SPI1-WP/DBI-TE/UART0-TX/UART2-TX/SPDIF-OUT/PB-EINT0
PB1/PWM4/I2S2-DOUT3/TWI2-SDA/I2S2-DIN3/UART0-RX/UART2-RX/IR-RX/PB-EINT1
PB2/LCD0-D0/I2S2-DOUT2/TWI0-SDA/I2S2-DIN2/LCD0-D18/UART4-TX/PB-EINT2
PB3/LCD0-D1/I2S2-DOUT1/TWI0-SCK/I2S2-DIN0/LCD0-D19/UART4-RX/PB-EINT3
PB4/LCD0-D8/I2S2-DOUT0/TWI1-SCK/I2S2-DIN1/LCD0-D20/UART5-TX/PB-EINT4
PB5/LCD0-D9/I2S2-BCLK/TWI1-SDA/PWM0/LCD0-D21/UART5-RX/PB-EINT5
PB6/LCD0-D16/I2S2-LRCK/TWI3-SCK/PWM1/LCD0-D22/UART3-TX/CPUBIST0/PB-EINT6
PB7/LCD0-D17/I2S2-MCLK/TWI3-SDA/IR-RX/LCD0-D23/UART3-RX/CPUBIST1/PB-EINT7
PB8/DMIC-DATA3/PWM5/TWI2-SCK/SPI1-HOLD/DBI-DCX/DBI-WRX/UART0-TX/UART1-TX/PB-EINT8
PB9/DMIC-DATA2/PWM6/TWI2-SDA/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/UART0-RX/UART1-RX/PB-EINT9
PB10/DMIC-DATA1/PWM7/TWI0-SCK/SPI1-MOSI/DBI-SDO/CLK-FANOUT0/UART1-RTS/PB-EINT10
PB11/DMIC-DATA0/PWM2/TWI0-SDA/SPI1-CLK/DBI-SCLK/CLK-FANOUT1/UART1-CTS/PB-EINT11
PB12/DMIC-CLK/PWM0/SPDIF-IN/SPI1-CS/DBI-CSX/CLK-FANOUT2/IR-RX/PB-EINT12
VDD-PD
VDD-LVDS
PD0/LCD0-D2/LVDS0-V0P/DSI-D0P/TWI0-SCK/PD-EINT0
PD1/LCD0-D3/LVDS0-V0N/DSI-D0N/UART2-TX/PD-EINT1
PD2/LCD0-D4/LVDS0-V1P/DSI-D1P/UART2-RX/PD-EINT2
PD3/LCD0-D5/LVDS0-V1N/DSI-D1N/UART2-RTS/PD-EINT3
PD4/LCD0-D6/LVDS0-V2P/DSI-CKP/UART2-CTS/PD-EINT4
PD5/LCD0-D7/LVDS0-V2N/DSI-CKN/UART5-TX/PD-EINT5
PD6/LCD0-D10/LVDS0-CKP/DSI-D2P/UART5-RX/PD-EINT6
PD7/LCD0-D11/LVDS0-CKN/DSI-D2N/UART4-TX/PD-EINT7
PD8/LCD0-D12/LVDS0-V3P/DSI-D3P/UART4-RX/PD-EINT8
PD9/LCD0-D13/LVDS0-V3N/DSI-D3N/PWM6/PD-EINT9
PD10/LCD0-D14/LVDS1-V0P/SPI1-CS/DBI-CSX/UART3-TX/PD-EINT10
PD11/LCD0-D15/LVDS1-V0N/SPI1-CLK/DBI-SCLK/UART3-RX/PD-EINT11
PD12/LCD0-D18/LVDS1-V1P/SPI1-MOSI/DBI-SDO/TWI0-SDA/PD-EINT12
PD13/LCD0-D19/LVDS1-V1N/SPI1-MISO/DBI-SDI/DBI-TE/DBI-DCX/UART3-RTS/PD-EINT13
PD14/LCD0-D20/LVDS1-V2P/SPI1-HOLD/DBI-DCX/DBI-WRX/UART3-CTS/PD-EINT14
PD15/LCD0-D21/LVDS1-V2N/SPI1-WP/DBI-TE/IR-RX/PD-EINT15
PD16/LCD0-D22/LVDS1-CKP/DMIC-DATA3/PWM0/PD-EINT16
PD17/LCD0-D23/LVDS1-CKN/DMIC-DATA2/PWM1/PD-EINT17
PD18/LCD0-CLK/LVDS1-V3P/DMIC-DATA1/PWM2/PD-EINT18
PD19/LCD0-DE/LVDS1-V3N/DMIC-DATA0/PWM3/PD-EINT19
PD20/LCD0-HSYNC/TWI2-SCK/DMIC-CLK/PWM4/PD-EINT20
PD21/LCD0-VSYNC/TWI2-SDA/UART1-TX/PWM5/PD-EINT21
PD22/SPDIF-OUT/IR-RX/UART1-RX/PWM7/PD-EINT22
VDD-CPUFB
VDD-SYSFB
VCC-IO
FEL
NMI
RESET
VCC3V3
LDOA-OUT
C31
0.1uF
C32
0.1uF
GND
DMIC
DSI-D0_P
DSI-D0_N
DSI-D1_P
DSI-D1_N
DSI-CK_P
DSI-CK_N
DSI-D2_P
DSI-D2_N
DSI-D3_P
DSI-D3_N
SPI1-DBI-CS
SPI1-DBI-CLK
SPI1-MOSI_DBI-SDO
SPI1-MISO_DBI-SDI
PD14/DBI-DCX
PD15
DSI-RESET
PD17/DMIC-DATA2
LCD_PWM
TP-RESET
TP-INT
PD21
PD22
AW-D1
U1J
VCC-PC
VCC-PF
PC0/UART2-TX/TWI2-SCK/LEDC-DO/PC-EINT0
PC1/UART2-RX/TWI2-SDA/PC-EINT1
PC2/SPIO-CLK/SDC2-CLK/PC-EINT2
PC3/SPIO-CSO/SDC2-CMD/PC-EINT3
PC4/SPIO-MOSI/SDC2-D2/BOOT-SELO/PC-EINT4
PC5/SPIO-MISO/SDC2-D1/BOOT-SEL1/PC-EINT5
PC6/SPIO-WP/SDC2-DO/UART3-TX/TWI3-SCK/DBG-CLK/PC-EINT6
PC7/SPIO-HOLD/SDC2-D3/UART3-RX/TWI3-SDA/TCON-TRIG/PC-EINT7
PF0/SDCO-D1/JTAG-MS/R-JTAG-MS/I2S2-DOUT1/I2S2-DINO/PF-EINT0
PF1/SDCO-DO/JTAG-DI/R-JTAG-DI/I2S2-DOUTO/I2S2-DIN1/PF-EINT1
PF2/SDCO-CLK/UARTO-TX/TWIO-SCK/LEDC-DO/SPDIF-IN/PF-EINT2
PF3/SDCO-CMD/JTAG-DO/R-JTAG-DO/I2S2-BCLK/PF-EINT3
PF4/SDCO-D3/UARTO-RX/TWIO-SDA/PWM6/IR-TX/PF-EINT4
PF5/SDCO-D2/JTAG-CK/R-JTAG-CK/I2S2-LRCK/PF-EINT5
PF6/SPDIF-OUT/IR-RX/I2S2-MCLK/PWM5/PF-EINT6
PCO_LEDC
PC1
SPIO-CLK
SPIO-CSO
SPIO-MOSI
SPIO-MISO
SPIO-WP
SPIO-HD
SDCO-D1
SDCO-DO
SDCO-CLK
SDCO-CMD
SDCO-D3
SDCO-D2
SDCO-DET
R46
33R
C27
0.1uF
GND
AW-D1
U1F
USBO-DM
USBO-DP
USB1-DM
USB1-DP
LRADC
GPADC0
GPADC1
TP-X1
TP-X2
TP-Y1
TP-Y2
USBO_N
USBO_P
USB1_N
USB1_P
LRADC
GPADC0
GPADC1
AW-D1
U11
/CS
DO
/WP
GND
VCC
/HOLD
CLK
DI
SPIFLASH_SOP8W
R54
10K
R55
10K
SPIO-CSO
SPIO-MISO
SPIO-WP
R50
10K
SPIO-HD
SPIO-CLK
SPIO-MOSI
U1E
VCC-TVIN
TVIN-VRP
TVIN-VRN
GND-TVIN
VCC-TVOUT
VCC-HDMI
HSCL
HSDA
HCEC
HHPD
TVINO
TVIN1
TVOUTO
HTXOP
HTXON
HTX1P
HTX1N
HTX2P
HTX2N
HTXCP
HTXCN
HDMI
HTXO_P
HTXO_N
HTX1_P
HTX1_N
HTX2_P
HTX2_N
HTXC_P
HTXC_N
C75
0.1uF
LDOA-OUT
AW-D1
U1I
VCC-PE
PE0/NCSI0-HSYNC/UART2-RTS/TWI1-SCK/LCD0-HSYNC/RGMII-RXCTRL/RMII-CRS-DV/PE-EINT0
PE1/NCSI0-VSYNC/UART2-CTS/TWI1-SDA/LCD0-VSYNC/RGMII-RXD0/RMII-RXD0/PE-EINT1
PE2/NCSI0-PCLK/UART2-TX/TWI0-SCK/CLK-FANOUT0/UART0-TX/RGMII-RXD1/RMII-RXD1/PE-EINT2
PE3/NCSI0-MCLK/UART2-RX/TWI0-SDA/CLK-FANOUT1/UART0-RX/RGMII-TXCK/RMII-TXCK/PE-EINT3
PE4/NCSI0-DO/UART4-TX/TWI2-SCK/CLK-FANOUT2/D-JTAG-MS/R-JTAG-MS/RGMII-TXD0/RMII-TXD0/PE-EINT4
PE5/NCSI0-D1/UART4-RX/TWI2-SDA/LEDC-DO/D-JTAG-DI/R-JTAG-DI/RGMII-TXD1/RMII-TXD1/PE-EINT5
PE6/NCSI0-D2/UART5-TX/TWI3-SCK/SPDIF-IN/D-JTAG-DO/R-JTAG-DO/RGMII-TXCTRL/RMII-TXEN/PE-EINT6
PE7/NCSI0-D3/UART5-RX/TWI3-SDA/SPDIF-OUT/D-JTAG-CK/R-JTAG-CK/RGMII-CLKIN/RMII-RXER/PE-EINT7
PE8/NCSI0-D4/UART1-RTS/PWM2/UART3-TX/JTAG-MS/MDC/PE-EINT8
PE9/NCSI0-D5/UART1-CTS/PWM3/UART3-RX/JTAG-DI/MDIO/PE-EINT9
PE10/NCSI0-D6/UART1-TX/PWM4/IR-RX/JTAG-DO/EPHY-25M/PE-EINT10
PE11/NCSI0-D7/UART1-RX/I2S0-DOUT3/I2S0-DIN3/JTAG-CK/RGMII-TXD2/PE-EINT11
PE12/TWI2-SCK/NCSI0-FIELD/I2S0-DOUT2/I2S0-DIN2/RGMII-TXD3/PE-EINT12
PE13/TWI2-SDA/PWM5/I2S0-DOUTO/I2S0-DIN1/DMIC-DATA3/RGMII-RXD2/PE-EINT13
PE14/TWI1-SCK/D-JTAG-MS/I2S0-DOUT1/I2S0-DINO/DMIC-DATA2/RGMII-RXD3/PE-EINT14
PE15/TWI1-SDA/D-JTAG-DI/PWM6/I2S0-LRCK/DMIC-DATA1/RGMII-RXCK/PE-EINT15
PE16/TWI3-SCK/D-JTAG-DO/PWM7/I2S0-BCLK/DMIC-DATA0/PE-EINT16
PE17/TWI3-SDA/D-JTAG-CK/IR-TX/I2S0-MCLK/DMIC-CLK/PE-EINT17
18
VCC-RMII-CSI
C42
0.1uF
GND
DVP/RMII/RGMII
TWI3
AW-D1
U1C
LDO-IN
LDOA-OUT
LDOB-OUT
VCC-EFUSE
VCC-PLL
VCC-RTC
X32KOUT
X32KIN
VCC-DCXO
DXIN
DXOUT
REFCLK-OUT
TEST
C7
10uF
C24
2.2uF
C34
2.2uF
C36
0.1uF
C60
2.2uF
LDOA-OUT
320
321
C35
22pF
C37
22pF
X2
R27
680K 1%
32.768K CL=12.5pF
C38
22pF
C40
22pF
X1
XTAL2520
XI
XO
AP-CLK24M-OUT
VDD-CPU
VDD-SYS
VDD-IO
FEL
NMI
RESET
C43
0.1uF
C44
10uF
C45
2.2uF
C59
2.2uF
C66
0.1uF
C68
10uF
C69
2.2uF
C70
2.2uF
C41
0.1uF
C39
0.1uF
R29
10K
TP7
TP8
TP6
VDD-CPUFB
VDD-SYSFB
LDOA-OUT


U1B
SDQ0 W7
SDQ1 V7
SDQ2 W8
SDQ3 V8
SDQ4 W4
SDQ5 Y4
SDQ6 V5
SDQ7 W5
SDQ8 U4
SDQ9 U7
SDQ10 U5
SDQ11 T6
SDQ12 U6
SDQ13 R7
SDQ14 T4
SDQ15 R6
SDQS0P W6
SDQS0N Y6
SDQS1P W3
SDQS1N Y3
SDQM0 Y8
SDQM1 W2
P14 VDD18-DRAM
N8 VCC-DRAM
N9 VCC-DRAM
N10 VCC-DRAM
P8 VCC-DRAM
P9 VCC-DRAM
P10 VCC-DRAM
SA0 V13 SA2
SA1 W13 SA1
SA2 V14 SA3
SA3 U13 SA6
SA4 U15 SA8
SA5 V11 SA0
SA6 W11 SBA0
SA7 Y13 SA11
SA8 W14 SBA1
SA9 Y15 SA13
SA10 W12 SA12
SA11 W15 SA7
SA12 W16 SA14
SA13 R15 SA5
SA14 V16 SA9
SA15 T15 SA4
SRAS U9 SRAS
SCAS T9 SCAS
SWE R9 SA10
SCS0 R12 SCS0
SCS1 R13 SCS1
SBA0 V10 SBA2
SBA1 W10 SWE
SBA2 Y11 SA15
SODT0 T12 SODT0
SODT1 U12 SODT1
SCKP T10 SCKP
SCKN U10 SCKN
SCKE0 W9 SCKE0
SCKE1 Y9 SCKE1
SRST Y17 SRST
SZQ U17
SVREF U16 SVREF
AW-D1
LDOA-OUT
20mA
C51 0.1uF
GND
VDD-DRAM
C52 0.1uF
C50 2.2uF
GND
R59 240-1%
GND


U2
SA0 N3
SA1 P7
SA2 P3
SA3 N2
SA4 P8
SA5 P2
SA6 R8
SA7 R2
SA8 T8
SA9 R3
SA10 L7
SA11 R7
SA12 N7
SA13 T3
SA14 T7
SA15 M7
SBA0 M2
SBA1 N8
SBA2 M3
SWE L3
SRAS J3
SCAS K3
SCS0 L2
SCKE0 K9
SVREF M8
H1
SODT0 K1
A0
A1
A2
A3
A4
A5
A6
A7
A8
A9
A10
A11
A12
A13
A14
A15
BA0
BA1
BA2
WE
RAS#
CAS#
CS#
CKE
VREFCA
VREFDQ
ODT
DQL0 E3 SDQ5
DQL1 F7 SDQ7
DQL2 F2 SDQ4
DQL3 F8 SDQ6
DQL4 H3 SDQ3
DQL5 H8 SDQ0
DQL6 G2 SDQ2
DQL7 H7 SDQ1
DQU0 D7 SDQ9
DQU1 C3 SDQ8
DQU2 C8 SDQ10
DQU3 C2 SDQ11
DQU4 A7 SDQ12
DQU5 A2 SDQ13
DQU6 B8 SDQ14
DQU7 A3 SDQ15
CK J7 SCKP
CK# K7 SCKN
DQSL F3 SDQS0P
DQSL# G3 SDQS0N
DQSU C7 SDQS1P
DQSU# B7 SDQS1N
DML E7 SDQM0
DMU D3 SDQM1
ODT1 J1 SODT1
CS1# L1 SCS1
CKE1 J9 SCKE1
ZQ1 L9
RESET T2 SRST
ZQ L8
A1 VDDQ#1
C1 VDDQ#2
F1 VDDQ#3
D2 VDDQ#4
H2 VDDQ#5
A8 VDDQ#6
H9 VDDQ#7
E9 VDDQ#8
C9 VDDQ#9
N1 VDD#1
R1 VDD#2
B2 VDD#3
K2 VDD#4
G7 VDD#5
K8 VDD#6
D9 VDD#7
N9 VDD#8
R9 VDD#9
B1 VSSQ#1
D1 VSSQ#2
G1 VSSQ#3
E2 VSSQ#4
D8 VSSQ#5
E8 VSSQ#6
B9 VSSQ#7
F9 VSSQ#8
G9 VSSQ#9
E1 VSS#1
M1 VSS#2
P1 VSS#3
T1 VSS#4
J2 VSS#5
B3 VSS#6
G8 VSS#7
J8 VSS#8
A9 VSS#9
M9 VSS#10
P9 VSS#11
T9 VSS#12
DDR3
GND
VDD-DRAM
R57 240-1%
R58 240-1%
GND
GND
C19 NC/2.2pF
R56 100


U1G
A1 GND0
A2 GND1
F3 GND2
H12 GND3
K6 GND4
L10 GND5
M11 GND6
P11 GND7
V6 GND8
Y20 GND9
A15 GND10
A19 GND11
A20 GND12
B1 GND13
B10 GND14
B20 GND15
C4 GND16
C8 GND17
C10 GND18
E5 GND19
F9 GND20
F12 GND21
F18 GND22
G10 GND23
G11 GND24
G12 GND25
H1 GND26
H2 GND27
H10 GND28
H11 GND29
H18 GND30
J3 GND31
J6 GND32
J7 GND33
J8 GND34
J9 GND35
J10 GND36
J11 GND37
J12 GND38
K3 GND39
K7 GND40
K8 GND41
K9 GND42
K10 GND43
K11 GND44
GND45 K12
GND46 K13
GND47 K14
GND48 L8
GND49 L9
GND50 L11
GND51 L12
GND52 L13
GND53 L14
GND54 L18
GND55 M3
GND56 M5
GND57 M8
GND58 M9
GND59 M10
GND60 M12
GND61 M13
GND62 M14
GND63 N11
GND64 N12
GND65 N13
GND66 N14
GND67 N15
GND68 N18
GND69 P7
GND70 P12
GND71 P13
GND72 R10
GND73 R18
GND74 T5
GND75 T7
GND76 T13
GND77 V2
GND78 V3
GND79 V4
GND80 V9
GND81 V12
GND82 V15
GND83 V17
GND84 W1
GND85 W17
GND86 W20
GND87 Y1
GND88 Y2
GND89 Y19
AW-D1
GND
GND


DRAM-FB
R11 0R
VDD-DRAM
C14 0.1uF
C11 0.1uF
C12 0.1uF
C16 0.1uF
C17 0.1uF
C18 0.1uF
C53 2.2uF
C54 2.2uF
C10 2.2uF
C13 2.2uF
GND


VDD-DRAM
R12 2K-1%
SVREF
R47 2K-1%
C55 0.1uF
C56 0.1uF
C57 0.1uF
GND

OTG

HOST

GPIO/SPI/I2C/UART/PCM/DMIC/LEDC/PWM

SYS

3.3V

CPU-Adj

DRAM

DVP(with TWI2)/RMII/RGMII

HDMI

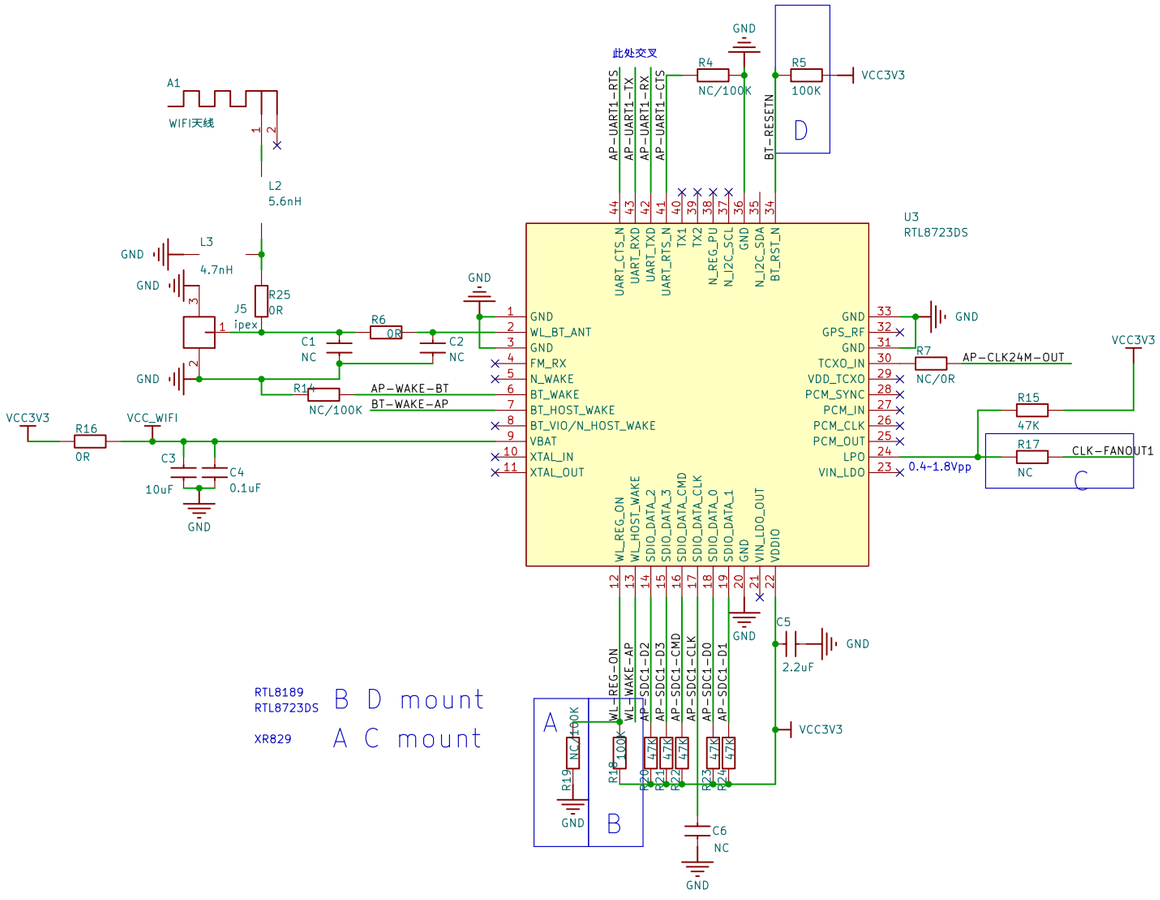
TF CARD

DSI/LVDS + CTP(twi3)

RGMII时，会把PE12，13的twi2占用

DVP模式：占用PE0--PE14
RMII模式：占用PE0--PE10
RGMII模式：占用PE0--PE15，外加一个RST控制IO
所以，DVP模式时的PE12，PE13（TWI2）为专用IO

OV2640 A:2.8,D:1.2,IO:1.8/2.8/3.3
OV5640 A:2.8,D:1.5,IO:1.8/2.8
OV7725 A:3.3,D:1.8,IO:2.8/3.3



RTL8189
RTL8723DS B D mount

XR829 A C mount