

RL78/G24 Fast Prototyping Board Schematic

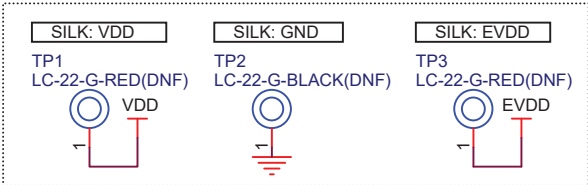
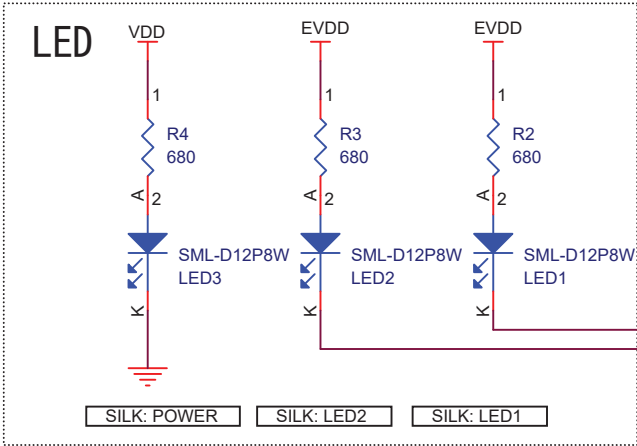
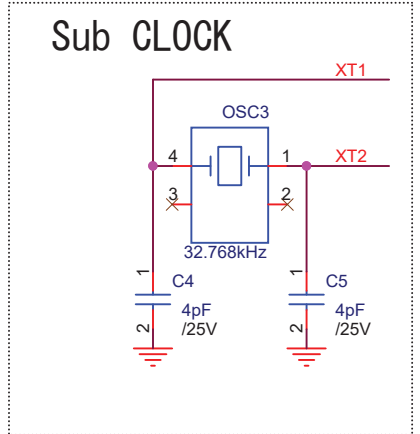
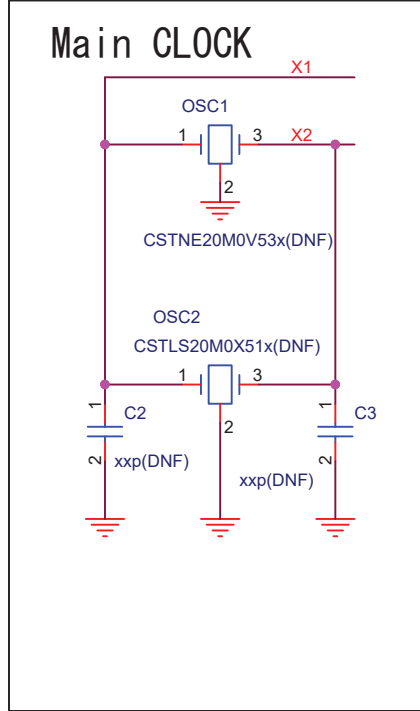
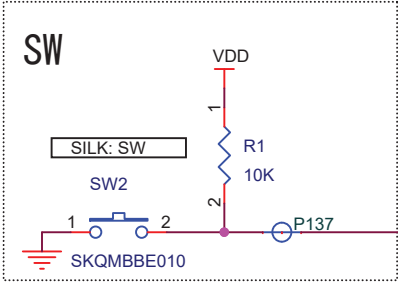
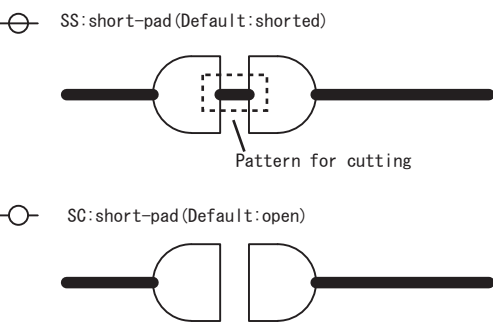
Product No: RTK7RLG240C00000BJ

Document No:R20UT5092EJ Rev.1.00

Page1 : CPU, GROVE I/F, LED, SW, CLOCK

Page2 : POWER, Micro USB I/F, E2 Emulator I/F, Reset, MCU Header, Pmod I/F, Arduino UNO R3 I/F

*(DNF) : Do not fit(Unmount)



P130

P04/SCK10/SCL10

P03/RxD1/SI10/SDA10

P02/TxD1/SO10

P01/ANI30/IVCMP2/PGAI2

P00/ANI29/IVCMP1/PGAI1

P141/INTP7

P140/INTP6

P120/ANI19/IVCMP0/PGAI0

P43

P42

P41

P40/TOOL0

RESET

P137/INTP0

P124

P123

P122/INTP20

P121/INTP21

X2

X1

U1

CPU

P120/ANI19/IVCMP0/PGAI0/TRGIDZ/TRGTRG

P43/(INTP9)

P42/(INTP8)

P41/(TRJIO0)

P40/TOOL0

RESET

P124/X2/EXCLKS

P123/XT1

P137/INTP0

P122/X2/EXCLK/INTP20/(TO00)

P121/VBAT/X1/INTP21/(TI02)/(TO02)

REGC

VSS

EVSS0

VDD

EVDD0

RL78/G24

P51/INTP2/SO00/TxD0/TOOLTxD/DALITxD0/TRGIOB/(VCOUT2)

P50/INTP1/SI00/RxD0/TOOLRxD/DALIRxD0/SDA00/TRGIOA/(TRJIO0)/(TI03)/(VCOUT3)

P140/PCLBUZ0/INTP6

P141/PCLBUZ1/INTP7

P00/ANI29/IVCMP1/PGAI2/T000/TRGCLKB/TRJIO0

P01/ANI30/IVCMP2/PGAI2/T000/TRGCLKB/TRJIO0

P02/ANI17/TxD1/DALITxD0/SO10

P03/ANI16/RxD1/DALIRxD0/(TI00)/(SI10/SDA10)

P04/SCK10/SCL10

P130

P20/ANI0/AVREFP/(INTP6)

P21/ANI1/AVREFM/(INTP7)

P22/ANI2/ANO0/PGAGND

P23/ANI3/ANO1/PGAGND

P24/ANI4

P25/ANI5

P26/ANI6

P27/ANI7

P147/ANI18/ANO2/IVCMP3/PGAI3

P146/ANI28

P10/ANI20/CCD06/SCK11/SCL11/TRDIOD1/VCOUT2

P11/ANI21/PGAO/CCD07/SI11/SDA11/TRDIOC1/(TO03)/(RxD0_1)/VCOUT3

P12/ANI22/SO11/TRDIOB1/TKBO00/IVREF1/(INTP5)/(TxD0_1)

P13/ANI23/TxD2/SO20/TRDIOA1/TKBO01/(TRDIOC0)

P14/RxD2/SI20/SDA20/TRDIOD0/TKBO10/VCOUT0/(SCLA0)/ANI24

P15/SCK20/SCL20/TRDIOB0/TKBO11/VCOUT1/(SDAA0)/ANI25

P16/ANI26/CCD00/TI01/TO01/INTP5/TRDIOC0/TKBO20/IVREF0/(RxD0)/(TRGIOB)/(SI00)

P17/CCD01/TI02/TO02/TRDIOA0/TRDCLK/TKBO21/(TxD0)/(TRGIOA)/ANI27/(SO00)

P55/(PCLBUZ1)/(SCK00)/(INTP4)

P54/(INTP3)

P53/(INTP2)

P52/(INTP1)

P51/INTP2/SO00/TxD0/TOOLTxD/DALITxD0/TRGIOB/(VCOUT2)

P50/INTP1/SI00/RxD0/TOOLRxD/DALIRxD0/SDA00/TRGIOA/(TRJIO0)/(TI03)/(VCOUT3)

P60/CCD04/SCLA0

P61/CCD05/SDAA0

P62/CCD02/SSI00

P63/CCD03

P31/TI03/TO03/INTP4/(TRJIO0)/(VCOUT0)/(PCLBUZ0)

P77/KR6/INTP10/(RxD2)

P76/KR5/INTP9/SCK01/SCL01/(TRDIOD1)

P74/KR4/INTP8/SI01/SDA01/(TRDIOB1)

P73/KR3/SO21/(TxD1)/(TRDIOC1)/SO01

P72/KR2/SO21/(TxD1)/(TRDIOA1)

P71/KR1/SI21/SDA21/(TI01)/(TO01)/(TRDIOD0)

P70/TRDIOB0/KR0/SCK21/SCL21

P06/(INTP11)/(TRJIO0)

P05/(INTP10)

P30/INTP3/RT1C1H/SCK00/SCL00/TRJIO0/(VCOUT1)

P30

P05

P06

P70/SCL21

P71/SDA21

P72

P73

P74/SDA01

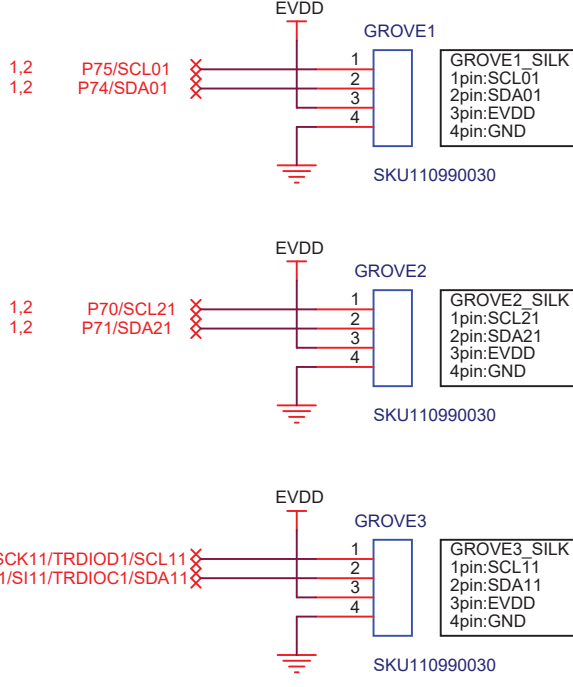
P75/SCL01

P76/INTP10

P77/INTP11

P31/INTP4

GROVE I/F



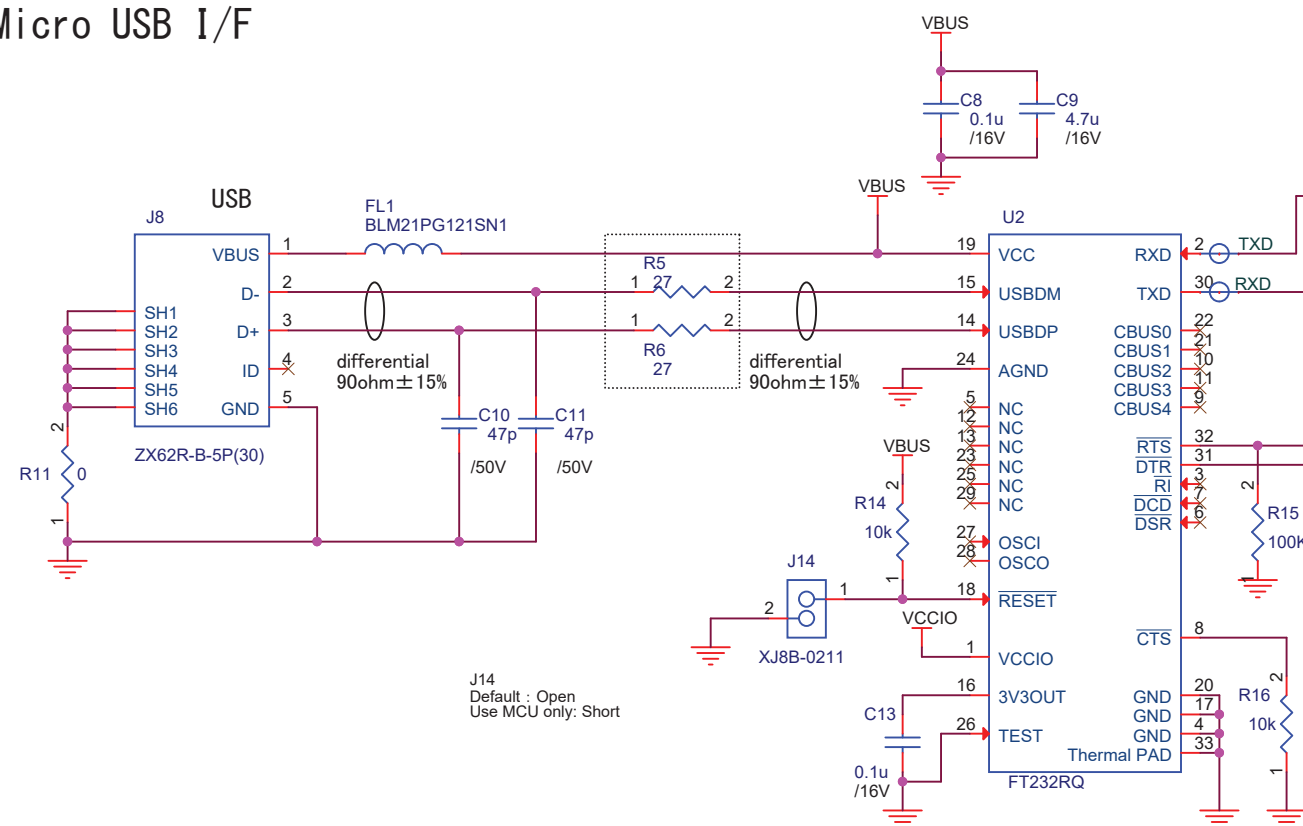
Shielded the line with GND

OSC1, OSC2, X1, X2, XT1, XT2, RESET, T_RESET

The power line thickened

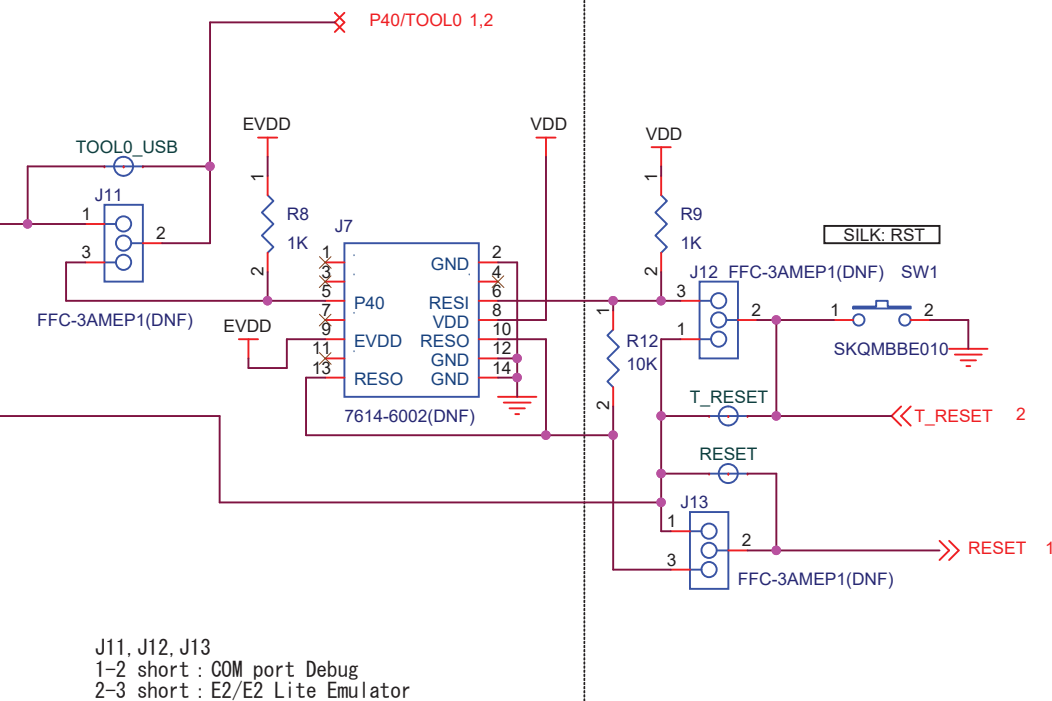
VDD, EVDD, REGC, 5V, VBUS, 3V3, Pmod1_VCC, Pmod2_VCC

Micro USB I/F



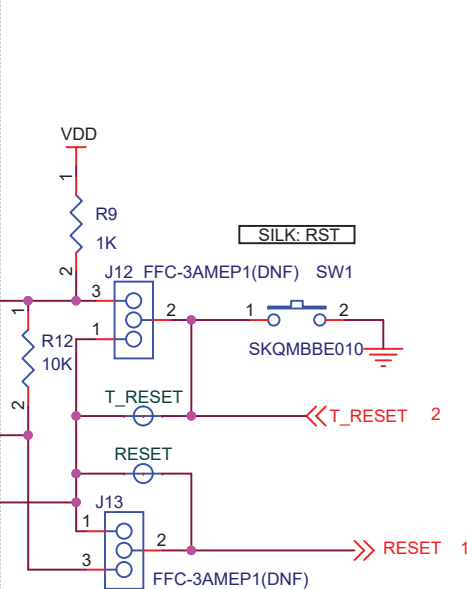
J14
Default : Open
Use MCU only: Short

E2 Emulator I/F

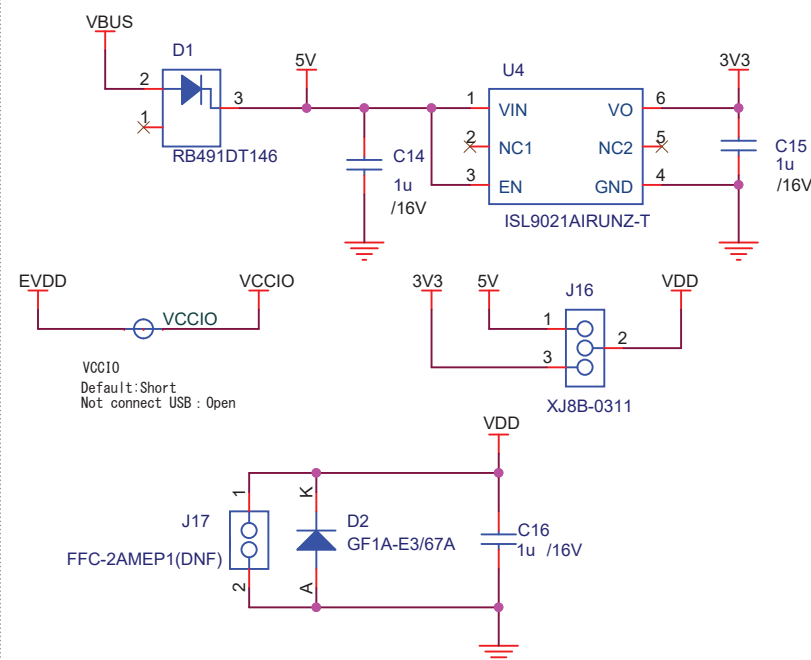


J11, J12, J13
1-2 short : COM port Debug
2-3 short : E2/E2 Lite Emulator

RESET

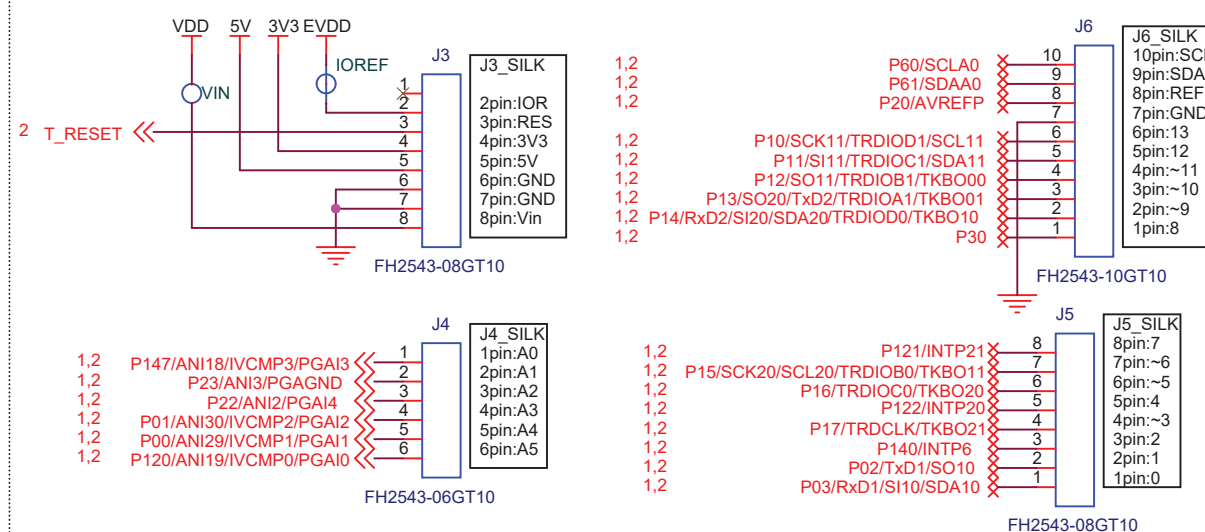


Power

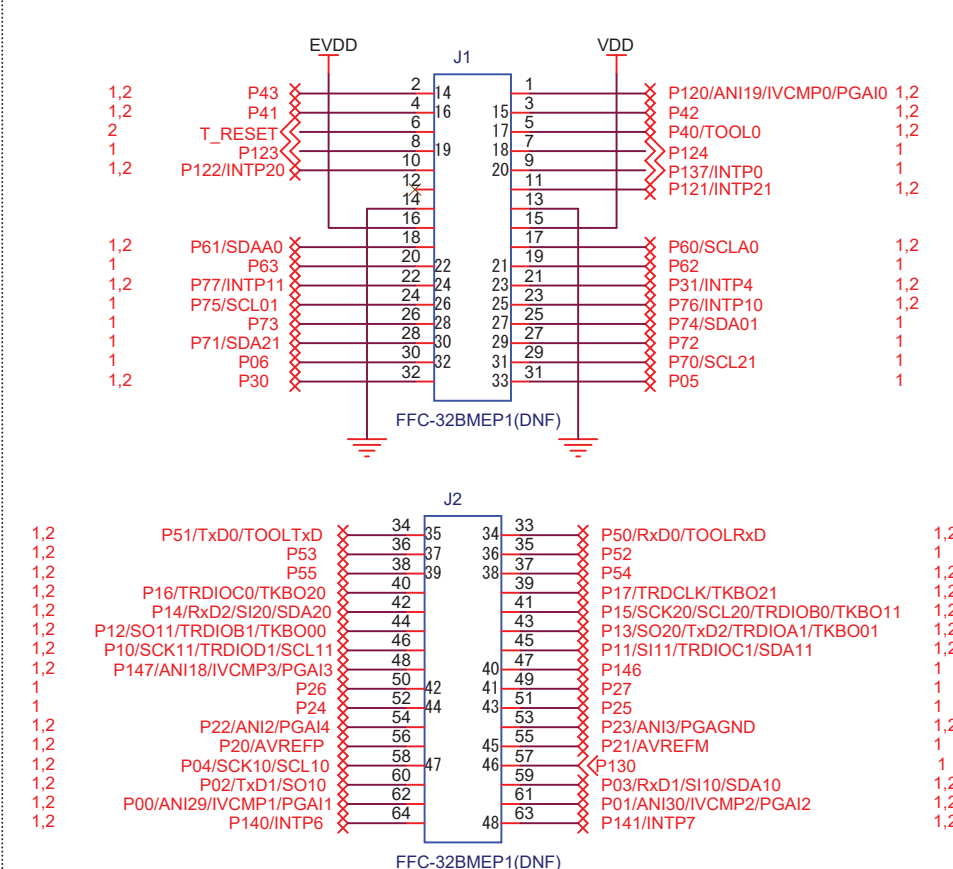


VCCIO
Default: Short
Not connect USB : Open

Arduino UNO R3 I/F



MCU header I/F



Pmod I/F

