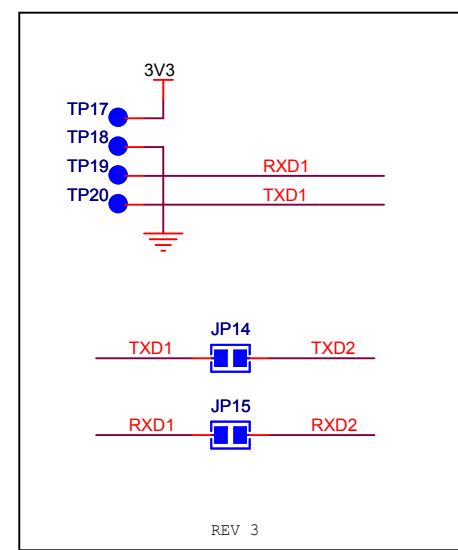


SWITCH SETTING	MCU OPERATING MODE
1=OFF, 2=OFF	SINGLE CHIP MODE
1=ON, 2=OFF	BOOT MODE
1=OFF, 2=ON	USB BOOT MODE
1=ON, 2=ON	DO NOT USE
SWITCH SETTING	ENDIAN MODE
3=OFF	BIG ENDIAN
3=ON	LITTLE ENDIAN
SWITCH SETTING	EMULATOR/DEBUGGER
4=OFF	ENABLED (DEBUG MODE)
4=ON	DISABLED (RUN MODE)

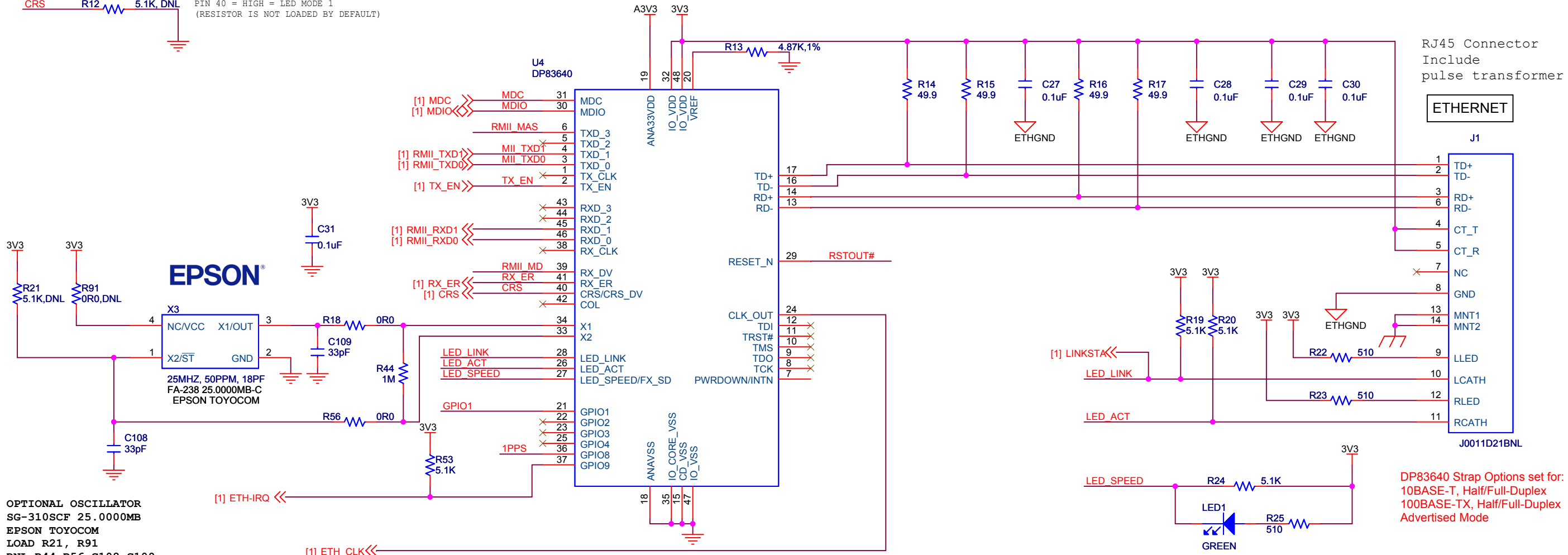
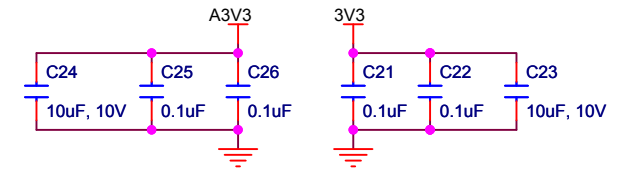
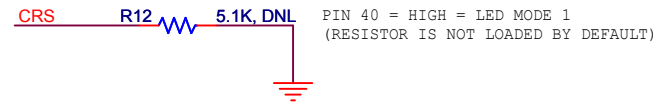
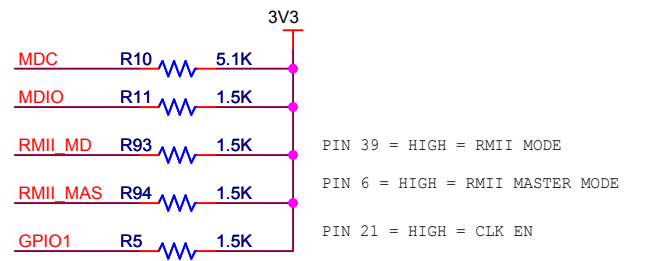
EMLE - INTERNAL EMULATOR ENABLE
 LOW = NOT ENABLED
 HIGH = ENABLED



□ :not mounted

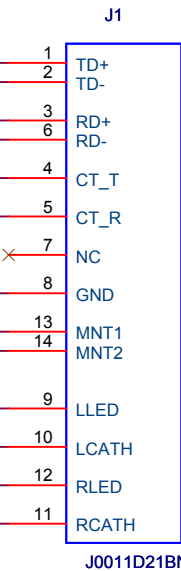


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RJ45 Connector
Include
pulse transformer

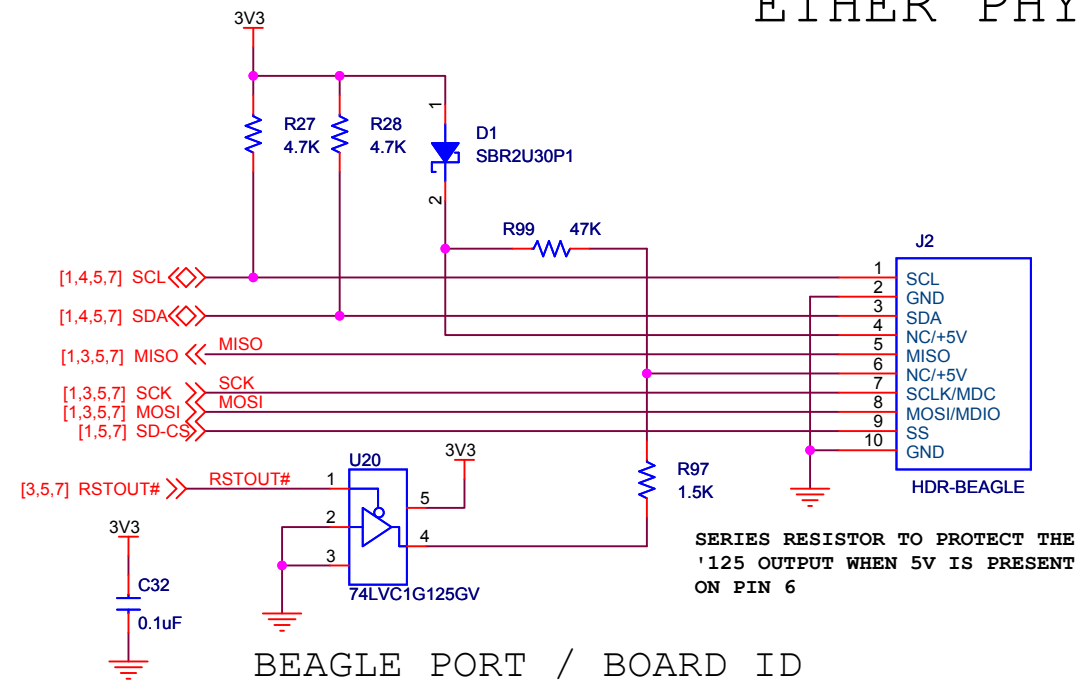
ETHERNET



DP83640 Strap Options set for:
10BASE-T, Half/Full-Duplex
100BASE-TX, Half/Full-Duplex
Advertised Mode

OPTIONAL OSCILLATOR
SG-310SCF 25.0000MB
EPSON TOYOCOM
LOAD R21, R91
DNL R44, R56, C108, C109
CHANGE R18 TO 330HM

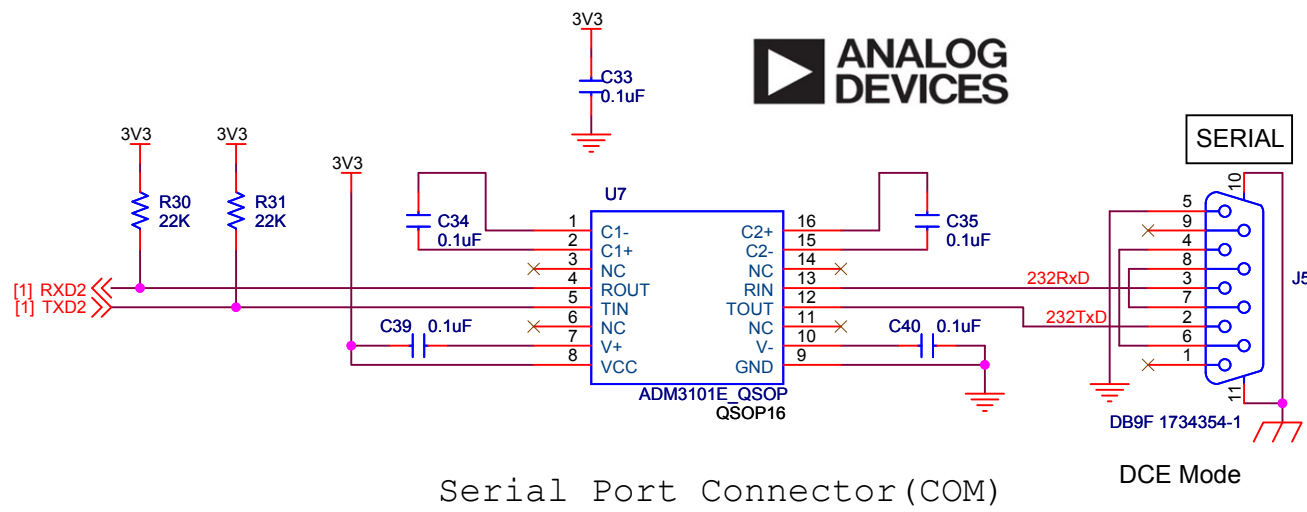
ETHER PHY-LSI



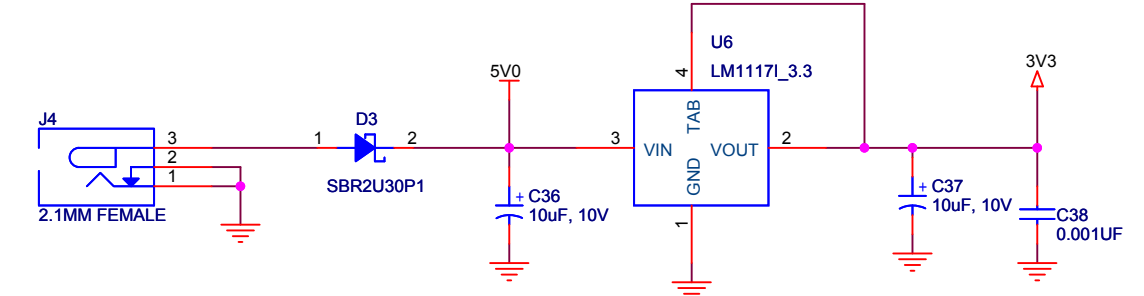
BEAGLE PORT / BOARD ID



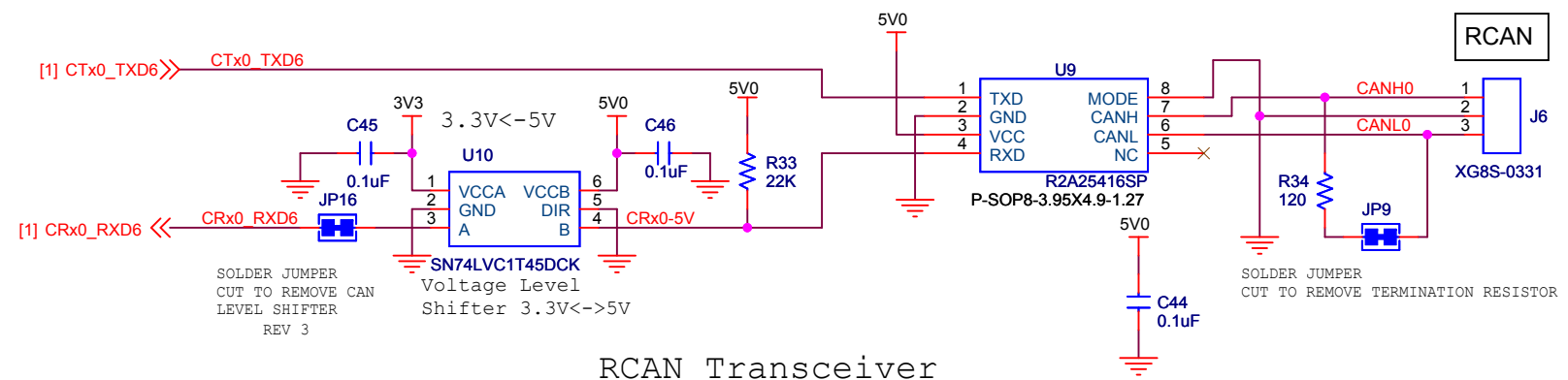
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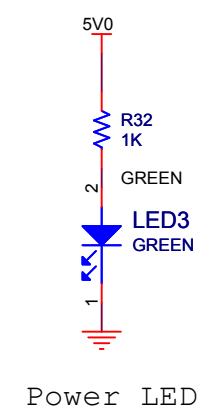
Serial Port Connector (COM)



3.3V LDO POWER SUPPLY
0.9A MAX

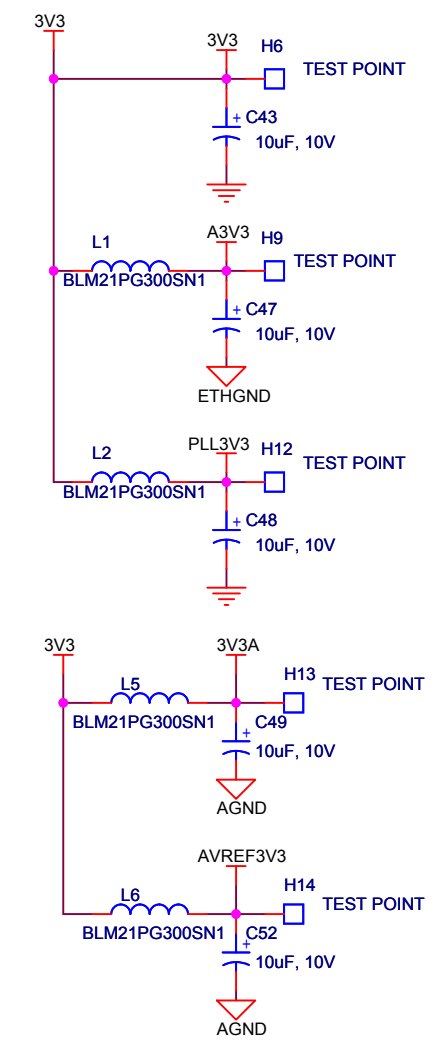
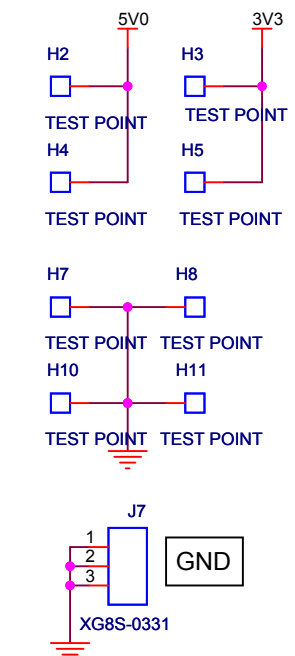


RCAN Transceiver

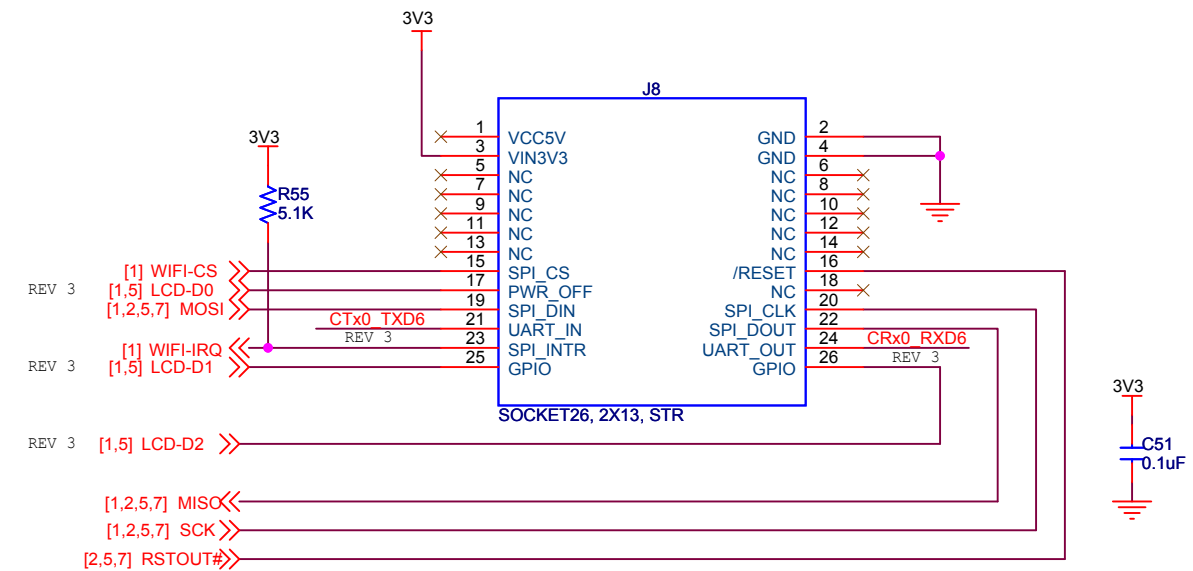


Power LED

POWER TEST PIN



APPLICATION HEADER



REDPINE WIFI

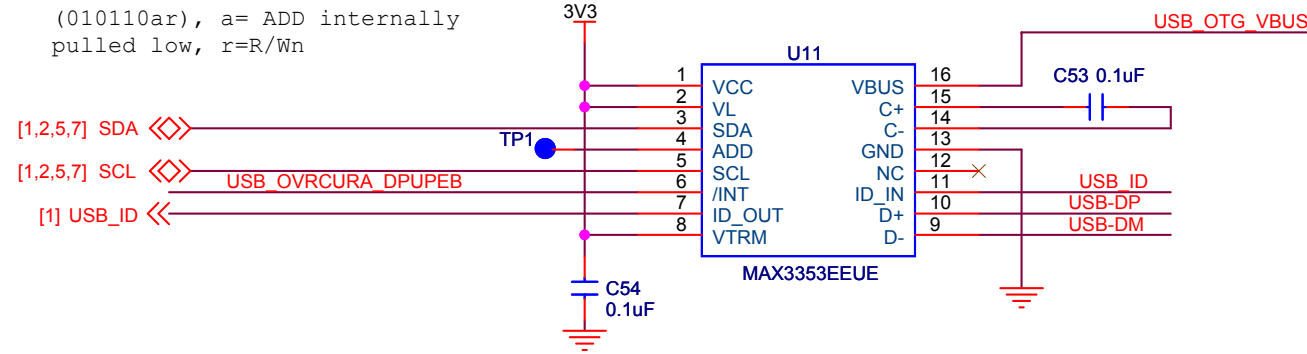
□ :not mounted



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I2C ADDR = 0x58
 (010110ar), a= ADD internally
 pulled low, r=R/Wn

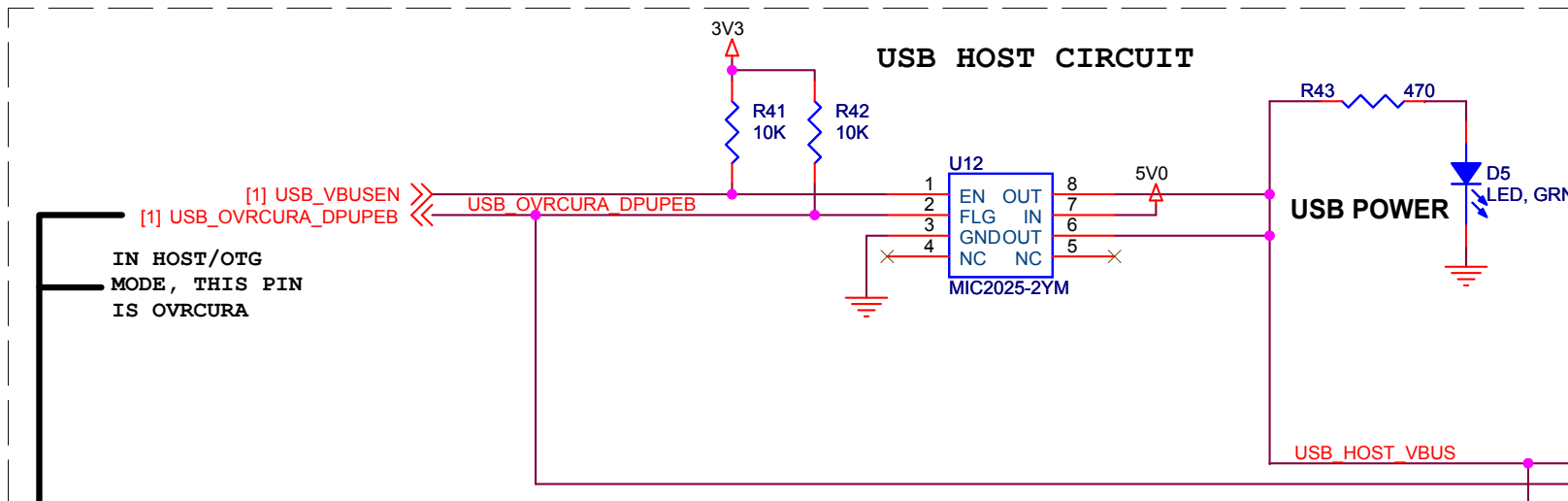
USB OTG CHARGE PUMP



TO CONVERT FROM USB MINI-AB TO USB A
 UTILIZE CABLE SHOWN BELOW, AVAILABLE
 FROM DIGI-KEY, PN: 10-0003-ND



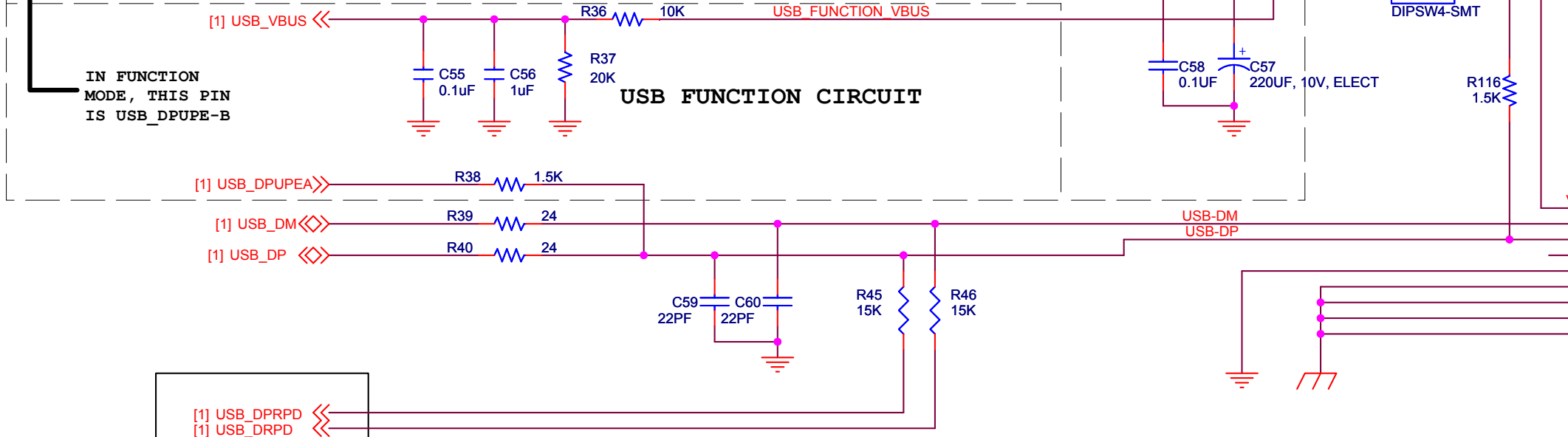
USB HOST CIRCUIT



USB POWER

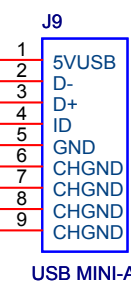


USB FUNCTION CIRCUIT



DIP SWITCH 6 DEFINITION	
FOR USB FUNCTION:	SWITCH 1 & 4 ON / SWITCH 2 & 3 OFF
FOR USB HOST:	SWITCH 3 ON / SWITCH 1, 2, & 4 OFF
FOR USB OTG:	SWITCH 2, 4 ON / SWITCH 1, 3 OFF

USB ID = LOW = HOST/MASTER MODE
 USB ID = NC (or HIGH) = DEVICE/FUNCTION MODE



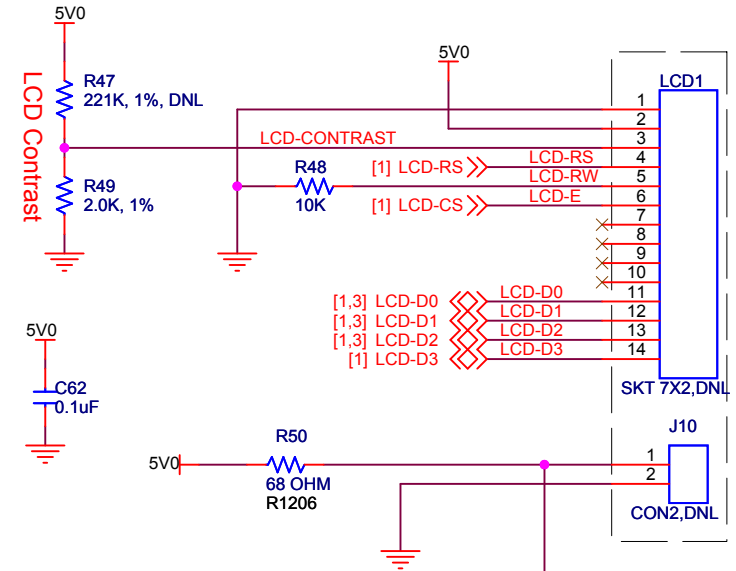
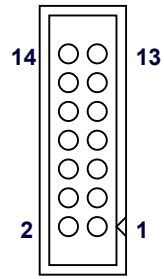
FOR USB FUNCTION - THESE SIGNALS MUST BE SET INPUT ONLY BY THE SW
 FOR USB HOST - THESE SIGNALS MUST BE SET TO OUTPUT, LOW ALL THE TIME BY THE SW
 FOR USB OTG - THESE SIGNALS WILL BE UTILIZED UNDER SOFTWARE CONTROL ACCORDING TO THE USB-ID SIGNAL

USB CIRCUITRY

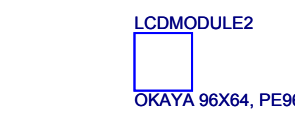
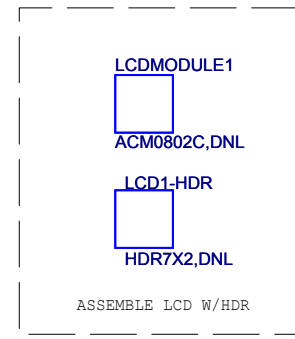


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Top View

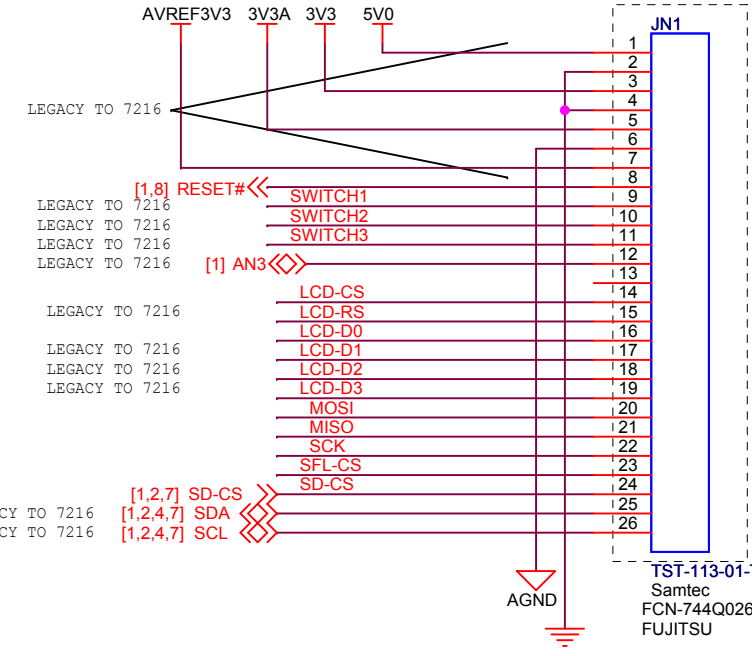


CHARACTER LCD DISPLAY



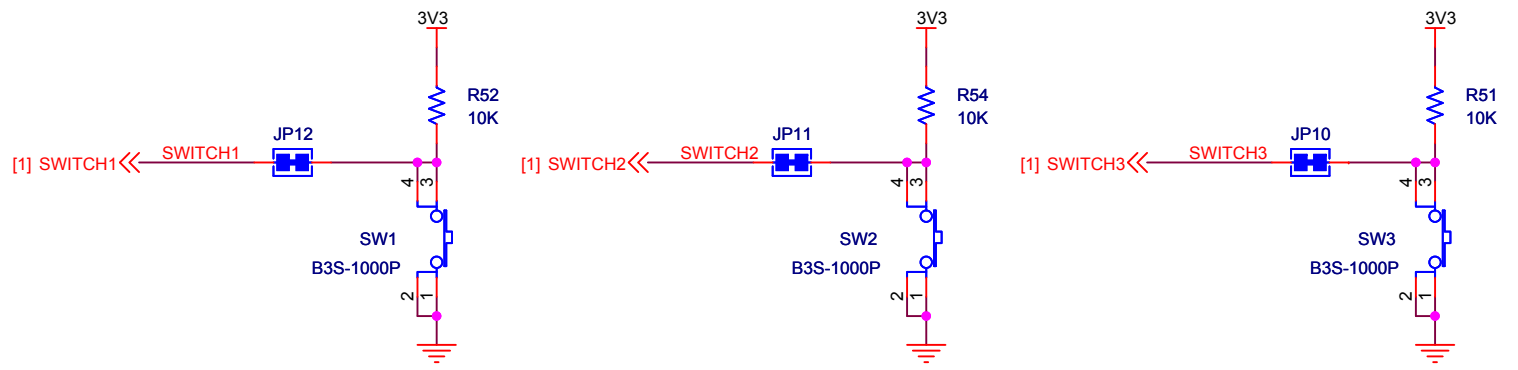
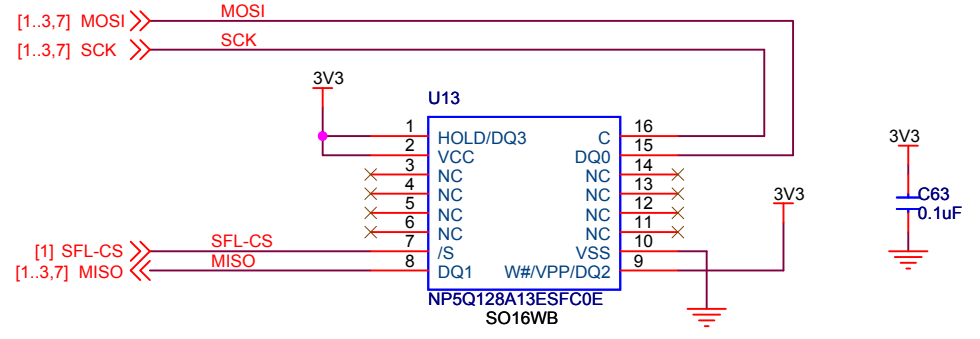
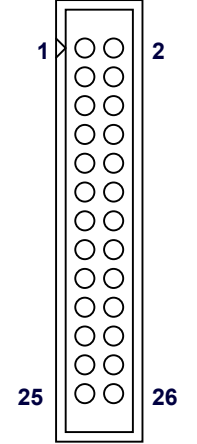
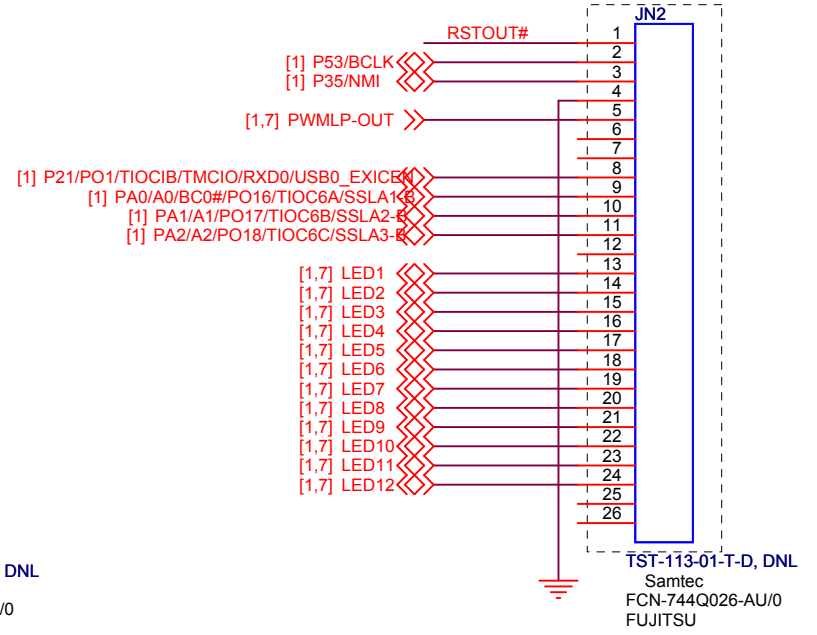
GRAPHICAL LCD DISPLAY

SINCE THE MODULE IS WRITE-ONLY, AND IS INPUT COMPATIBLE WITH 3.3V SIGNALS, WE CAN POWER IT BY 5V



BACKLIGHT CONNECTOR FOR CHARACTER DISPLAY

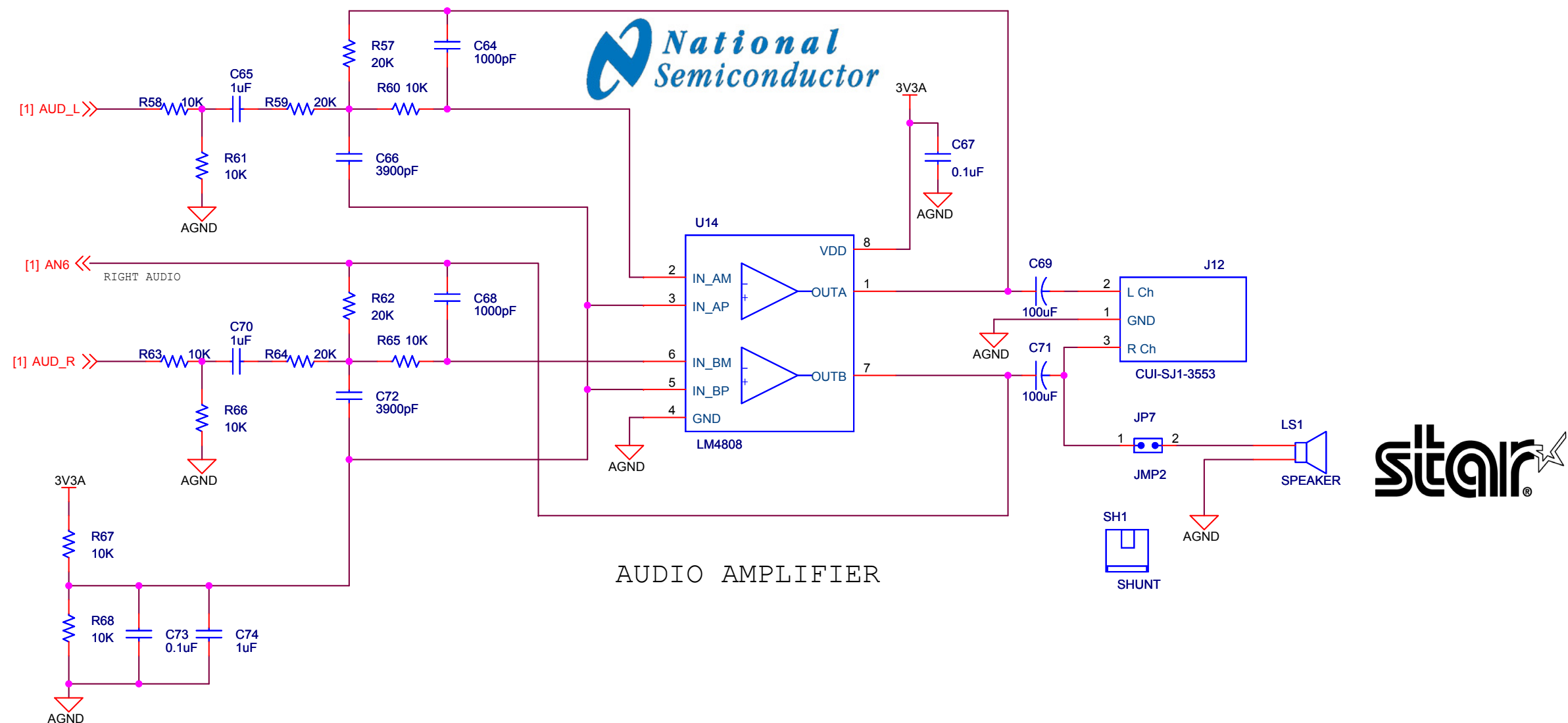
RX62N Extension Connectors



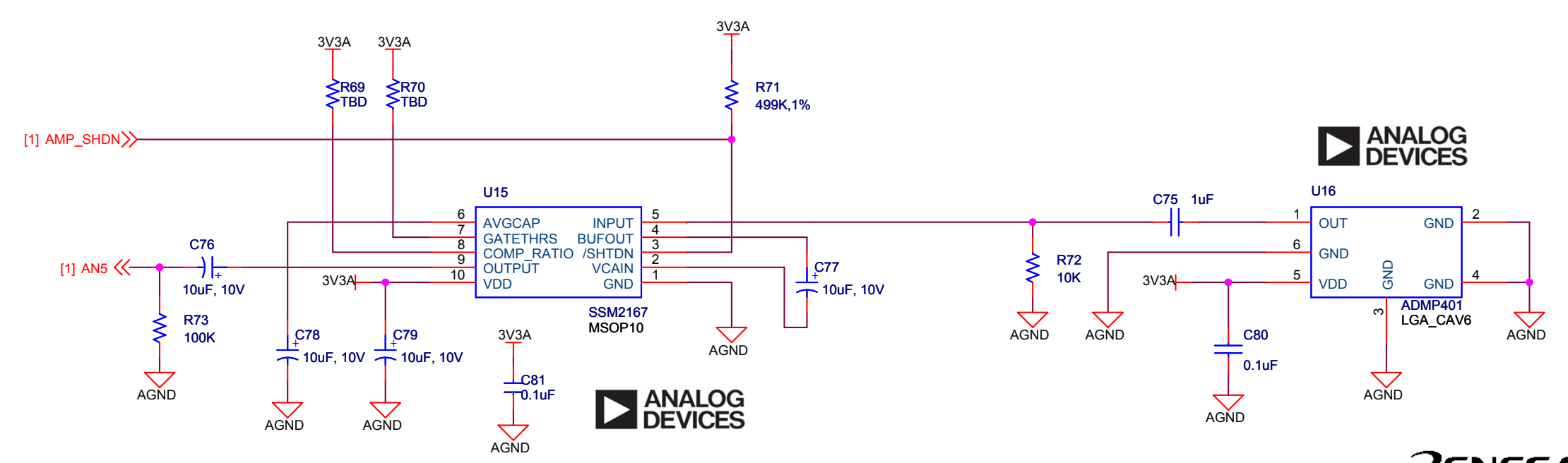
USER PUSHBUTTONS

[] :not mounted

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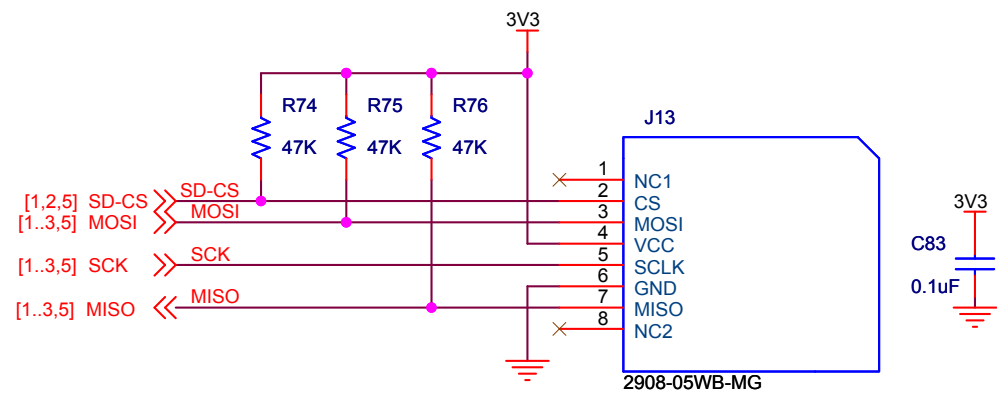
AUDIO AMPLIFIER



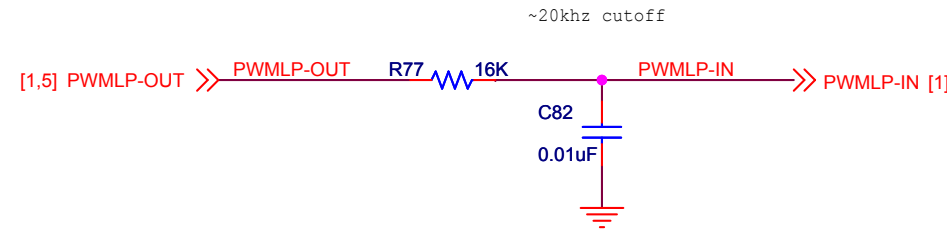
MICROPHONE AND CIRCUIT



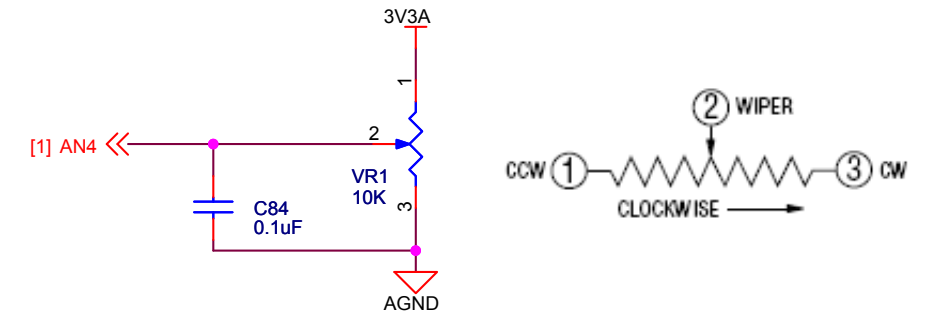
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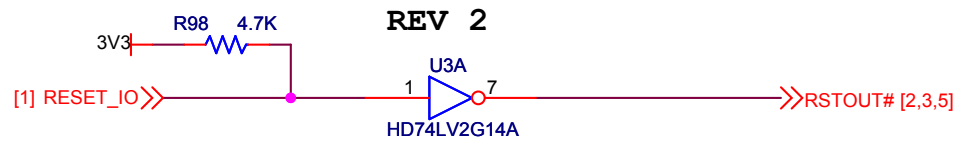
MICRO SD



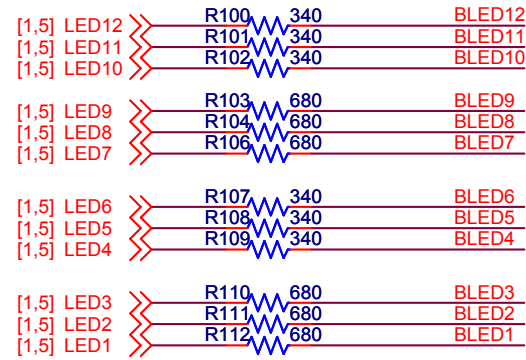
AUDIO FILTER



POTENTIOMETER

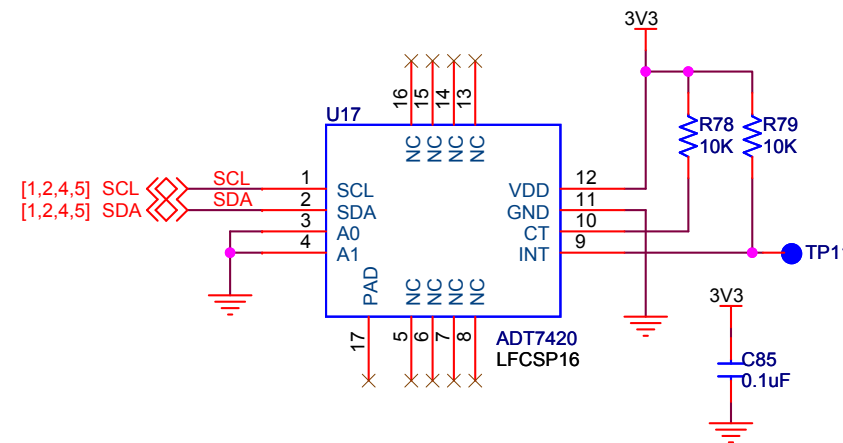


PERIPHERAL RESET BUFFER



REV 2

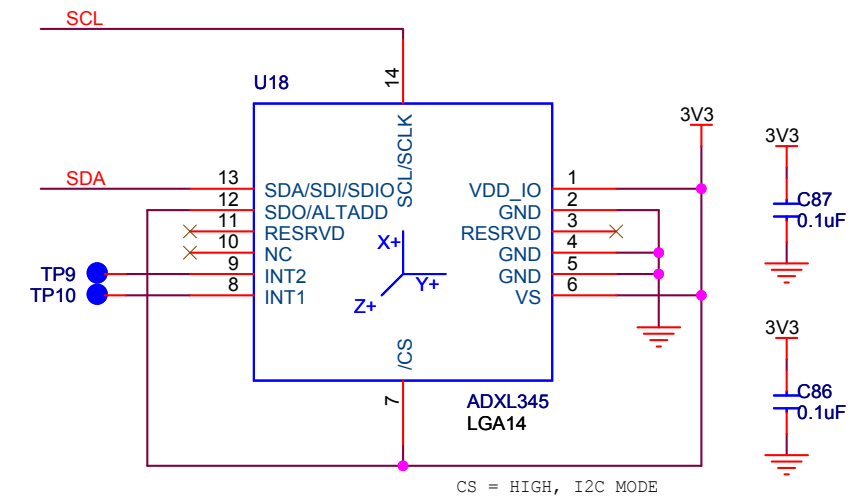
LED RESISTORS



TEMP SENSOR

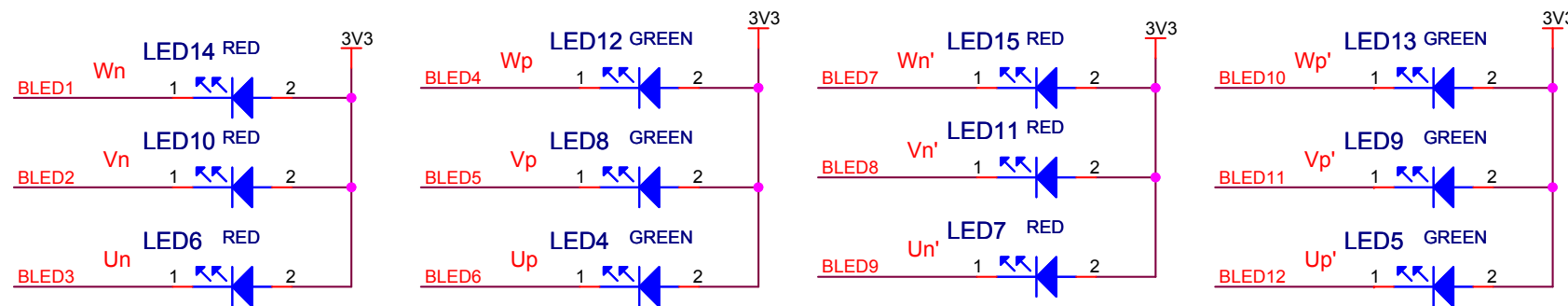
I2C ADDR = 0x90
(10010aar), aa = A1:A0, r=R/Wn

MAKE SURE TO PLACE AWAY FROM ANY HEAT SOURCE



ACCELEROMETER

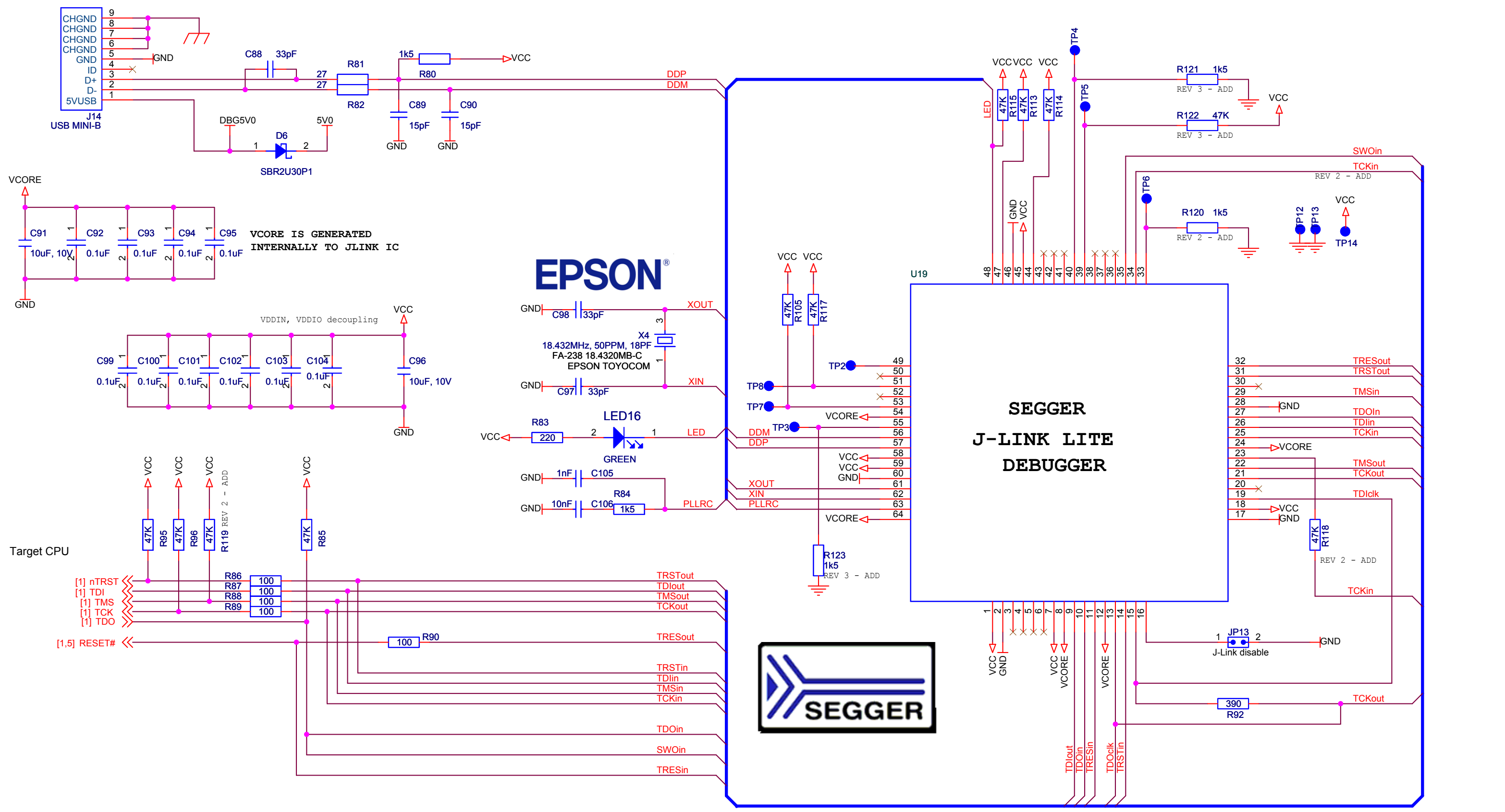
I2C ADDR = 0x3A
(0011101r), r=R/Wn



LED ARRAY



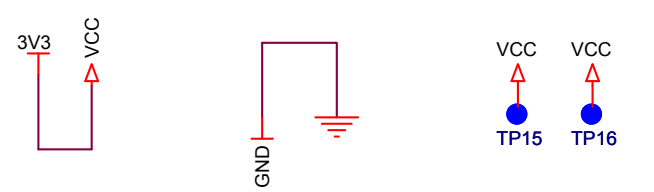
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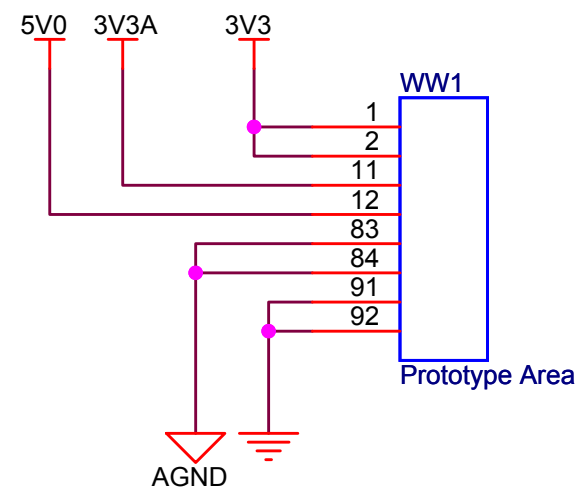
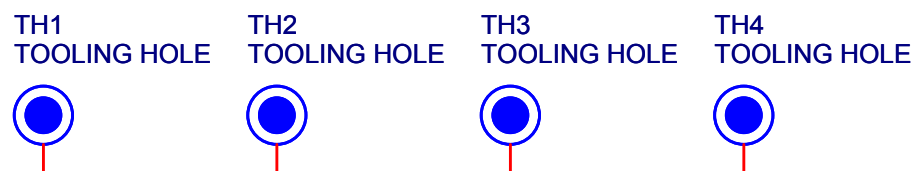
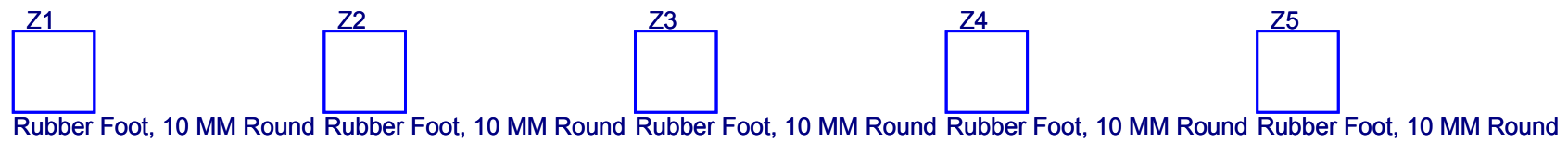


SEGGER J-LINK LITE DEBUGGER



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RENESAS

FUTURE DESIGNS, INC.

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Rev
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