USB

P1
Conn_1x5
VBUS — 1
D− — 2
D+ — 3
GND — 4
Shield — 5

R7 0
R9 22
R8 22
C11
C8
D_MINUS
D_PLUS
VBUS
GND
GND
GND
R11 0
R4 1.5k
PUR
GND

Bus Powered Suspend

+3.3V
R1 15k
R24 32.4k
RESET
VREGEN
C7 1u?
D2 CH461F
SUSPEND
GND

Pullups

+3.3V
R28 5.1k
R26 5.1k
SCL
SDA

+3.3V
R25 5.1k
R30 5.1k
TEST0
TEST1

Power Supplies

VBUS
U2 TPS71533_SC70
4 IN   OUT 5
2 GND
+3V3
C2 0.47u?
C3 0.1u?
C4 0.1u?
GND
GND
GND

+3.3V   +1V8
R20 90.9k
R21 100k
GND

USB Microcontroller

U3 TUSB3410
+3V3 +1V8
3 VCC   25 VCC   4 VDD18

1 VREGEN   TEST0 23
2 SUSPEND   TEST1 24
5 PUR
6 DP   P3.0 32 TP1
7 DM   P3.1 31 TP2
9 RESET   P3.3 30 MCU_TIP
12 WAKEUP   P3.4 29 MCU_RING
10 SDA   CTS 13
11 SCL   DCD 15
22 CLKOUT   DSR 14
27 X1/CLKI   DTR 21
26 X2   RTS 20
                RI/CP 16
                SIN/IR_SIN 17
                SOUT/IR_SOUT 19

VREGEN
SUSPEND
PUR
D_PLUS
D_MINUS
RESET
SDA
SCL
TEST0
TEST1

C5 33p?
Y1 12MHz
C1 33p?
GND

R2 10k   +3V3

8 GND   18 GND   28 GND
GND

Graph Link

+3V3   +3V3
R5 10k
IMH8A U4A
4
5
3
MCU_TIP
D1B RB471E
L2 1m
C9
GND
Ti1
1 red
2 white
3 black
Wire
MCU_RING
D1A RB471E
L1 1m
C10
R10 0
GND
R6 10k
IMH8A U4B
6
2
7
+3V3
GND

EEPROM

+3.3V
U1 24LC64
1 A0   VCC 8
2 A1   SDA 5
3 A2   SCL 6
4 GND WP 7
R27 0   SDA
R29 0   SCL
GND