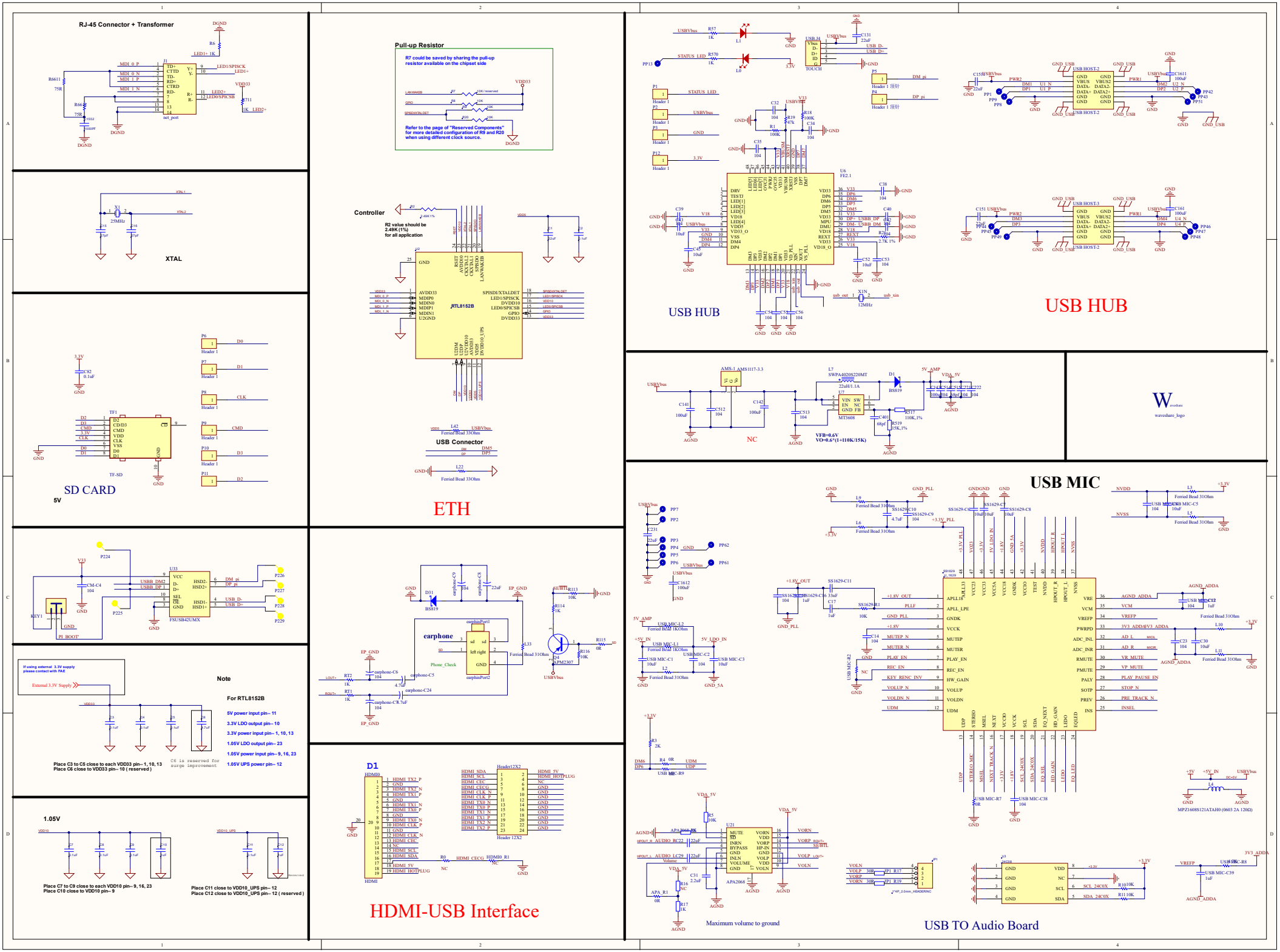
RJ-45 Connector + Transformer
XTAL
SD CARD
5V
Pull-up Resistor
R7 could be saved by sharing the pull-up resistor available on the chipset side
Refer to the page of "Reserved Components" for more detailed configuration of R9 and R20 when using different clock source.
Controller
R2 value should be 2.49K (1%) for all application
RTL8152B
USB Connector
ETH
USB HUB
USB HUB
NC
VFB=0.6V
VO=0.6*(1+110K/15K)
waveshare_logo
USB MIC
Note
For RTL8152B
5V power input pin-- 11
3.3V LDO output pin-- 10
3.3V power input pin-- 1, 10, 13
1.05V LDO output pin-- 23
1.05V power input pin-- 9, 16, 23
1.05V UPS power pin-- 12
Place C3 to C5 close to each VDD33 pin-- 1, 10, 13
Place C6 close to VDD33 pin-- 10 (reserved)
C6 is reserved for surge improvement
1.05V
Place C7 to C9 close to each VDD10 pin-- 9, 16, 23
Place C10 close to VDD10 pin-- 9
Place C11 close to VDD10_UPS pin-- 12
Place C12 close to VDD10_UPS pin-- 12 (reserved)
HDMI-USB Interface
Maximum volume to ground
USB TO Audio Board