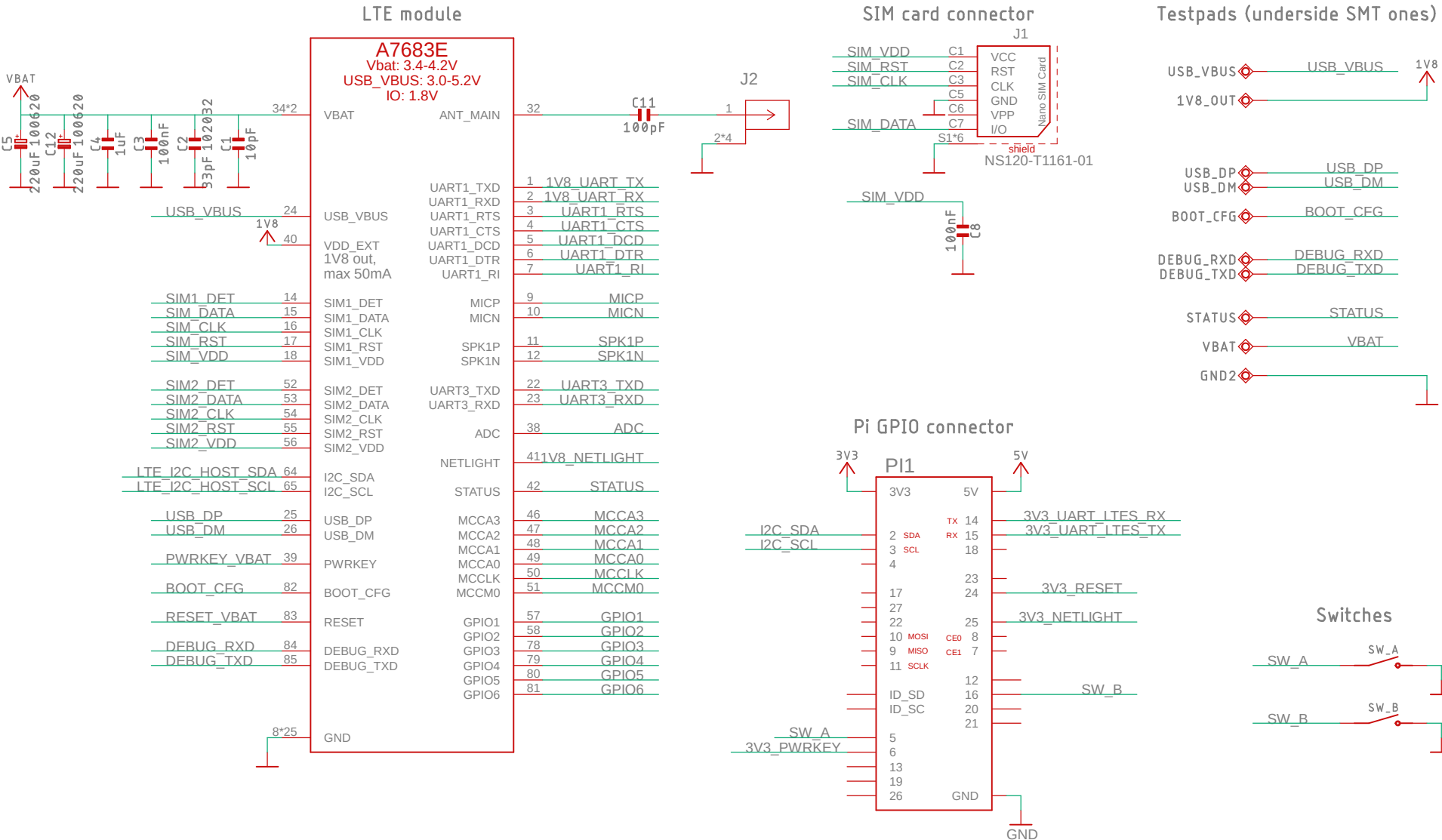
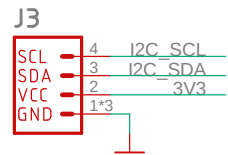


Clipper HAT Mini (PIM717)

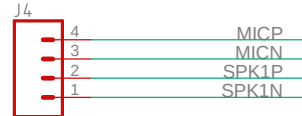


Clipper HAT Mini (PIM717)

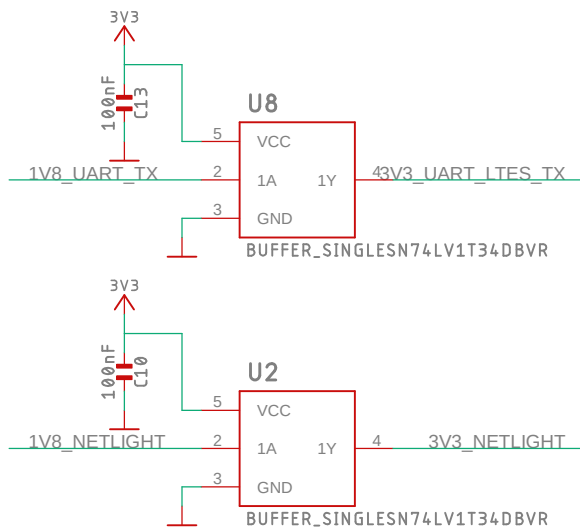
Qw/ST connector



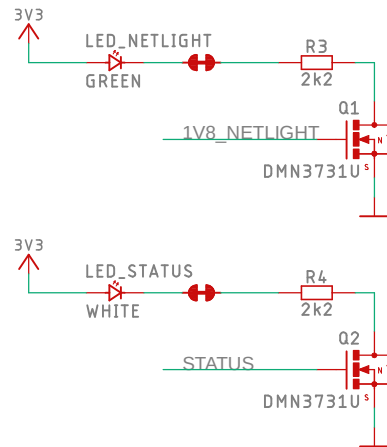
Mic and Speaker Signals



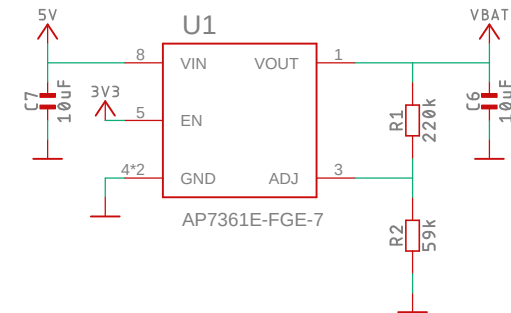
1v8 to VddIO (typ 3v3) level shift



Activity LEDs

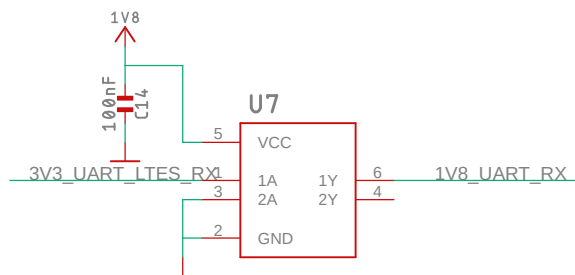


LDO voltage regulator

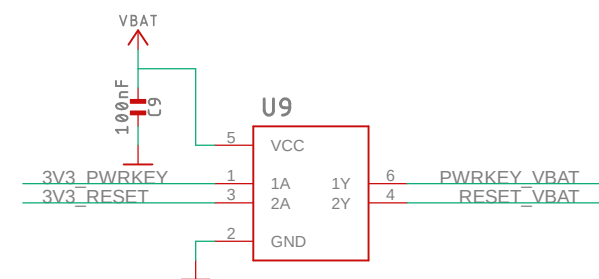


VBAT: "Module input voltage ranges from 3.4V to 4.2V, typical values is 3.8V. "
 $R2 = 59k$ and $R1 = 220k$ lead to $0.8 * (1 + 220/59) = 3.78V$ VBAT

VddIO (typ 3v3) to 1v8 level shift



VddIO (typ 3v3) to VBAT level shift



74LVC2G17 Max positive-going threshold voltage at 4.5V Vcc: 3.1V