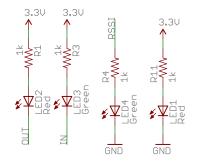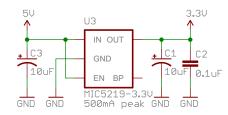v14--added MOSFET level shifter instead of series reverse diode

3.3V 3.3V
1k R1 1k R3   RSSI   3.3V
               R4 1k   R11 1k
LED2   LED3   LED4   LED1
Red   Green   Green   Red
OUT   IN   GND   GND

5V   U3   3.3V
C3   IN OUT   C1   C2
10uF   GND   10uF 0.1uF
            EN BP
GND GND MIC5219-3.3V   GND GND
          500mA peak

JP2   3.3V   U2   5V   M11PTH
11 GND   1 VDD   DIO0 20   DIO0 1
10 3.3V   2 DOUT   DIO1 19   DIO1 2
9   OUT   3 DIN   DIO2 18   DIO2 3
8   IN   4 DIO12   DIO3 17   DIO3 4
7   DIO12   5 RESET   RTS   16   RTS   5
6   RESET   6 RSSI   DIO5 15   DIO5 6
5   RSSI   7 DIO11   RES   14   RES2 7
4   DIO11   8 RES   DIO9 13   DIO9 8
3   RES1   9 DTR   CTS   12   CTS   9
2   DTR   10 GND   DIO4 11   DIO4 10
1   GND   5V   11
M11PTH   GND   XBEE-1B3   JP3

5V   SJ1
DTR   DIO3   RTS ──●── DIO3
RXI   DIN
TXO   DOUT
VCC
CTS
GND
JP4
GND

3.3V   5V   3.3V   5V
R7 1k   Q2   R8 1k   R5 1k   Q1   R6 1k
OUT   DOUT   IN   DIN

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Design by: A.Weiss

open hardware
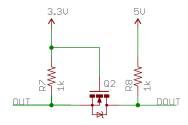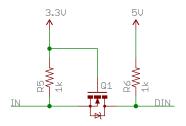
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