

The image shows a detailed PCB layout for a Nordic nRF51822 module. The central component is the nRF51822 chip, with its pins connected to various external components. Key components include:

- Power Supply:** A +3V3_mcu supply connected to the VDD pin (pin 1) via a 470nH inductor (L4). The VDD pin is also connected to a 100nF capacitor (C5) and a 100nF capacitor (C15) to ground. The VDD+ pin (pin 12) is connected to a 100nF capacitor (C6) to ground.
- Grounding:** The GND pin (pin 11) is connected to a 100nF capacitor (C16) to ground. The ExpPad-GND pin (pin 49) is connected to a 100nF capacitor (C8) to ground.
- Antenna:** The ANT pin (pin 31) is connected to a 2.2pF capacitor (C11) to ground. The ANT pin is also connected to a 3.3nH inductor (L3) to ground. The ANT pin is connected to a 1.5pF capacitor (C10) to ground.
- Crystal:** The XC1 pin (pin 37) is connected to a 16MHz crystal (Q1) and a 100nF capacitor (C3) to ground. The XC2 pin (pin 38) is connected to a 12pF capacitor (C2) to ground.
- Other Components:** The chip is connected to various other components including a 1k resistor (R5), a 150 resistor (R3), a 150 resistor (R4), a BRBG1211C LED (D4), and a switch (S1).

