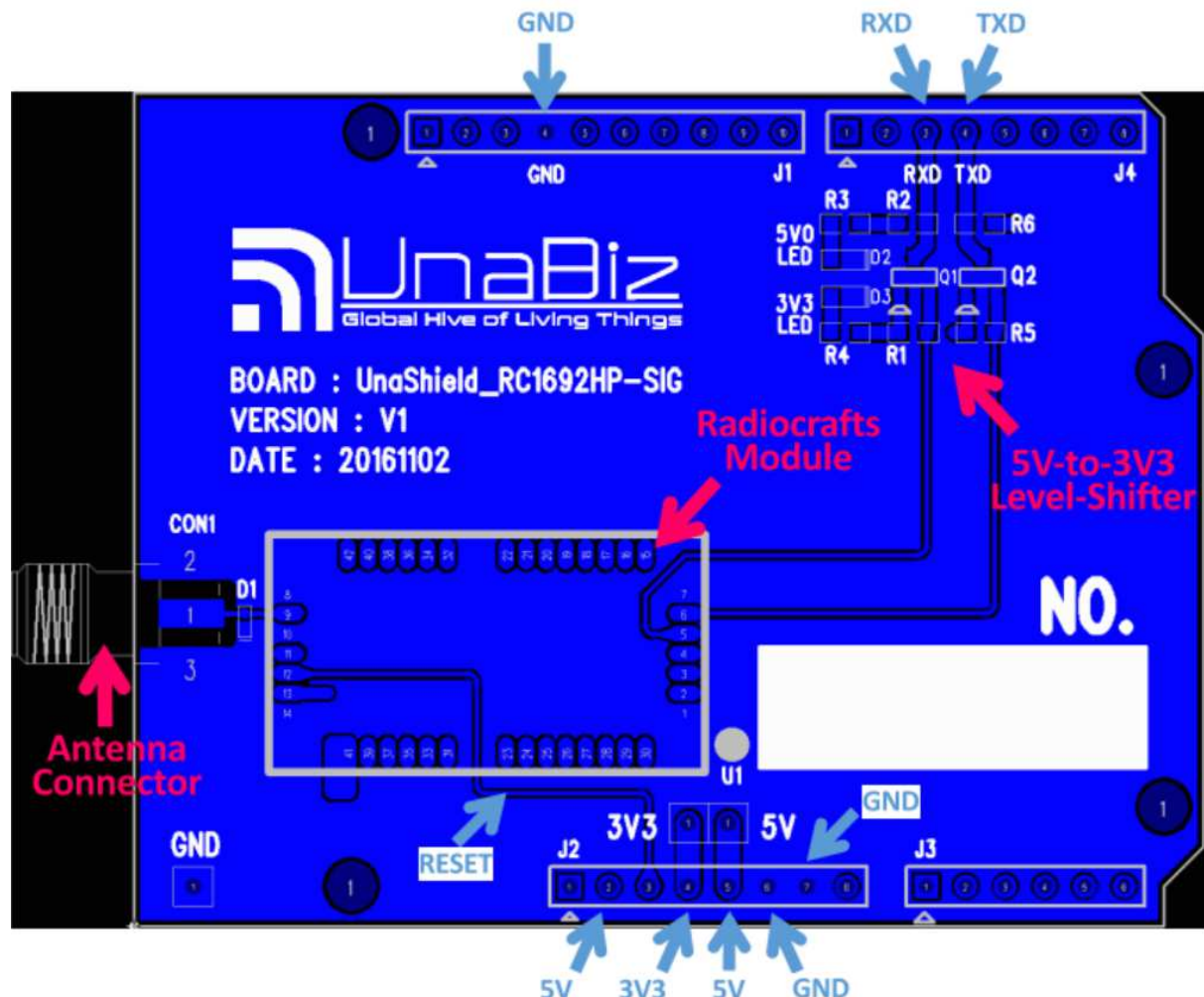


About the UnaShield

The Radiocrafts module and level-shifter board can be integrated as the UnaShield, which can be directly plug onto the Arduino UNO R3. The top-layer view of UnaShield is captured and described below.

【TOP-View】



PIN DESCRIPTION

(1) UART Interface

Pin3 of J4 : UART-RX (IO5)

Pin4 of J4 : UART-TX (IO4)

* The SIGFOX module (RC1692HP-SIG) uses digital pin4 (as TX) and pin5 (RX), so remember not to use these 2 pins while using UnaKit.

(2) Reset function

Pin3 of J2 : Reset with low active

(3) Power Source

Pin2 of J2 : 5.0V, supply to VCC_PA of Radiocrafts Module, for power amplifier

Pin4 of J2 : 3.3V, supply to VCC of Radiocrafts Module

Pin5 of J2 : 5.0V, supply to VCC_PA of Radiocrafts Module, for power amplifie

(4) GND Connection

Pin4 of J1

Pin6 of J2

Pin7 of J2

(5) Antenna

Pin1 of CON1 (RP-SMA Female Connector)

* Please do make sure the antenna is connected before sending messages in case of breaking the RF hardware.

* Connect the improper antenna would degrade the RF radiated power. That will be no problem for demonstration and functional validation, but affects the transmission distance in practice.

LED INDICATION

There are two LEDs equipped to indicate the power status, including 3V3 & 5V. They are placed next to the 5V-to-3V3 Level-Shifter. Always check with these two LEDs lighted-up to ensure the powers are normally supplied.

【Bottom-View】 Perspective

