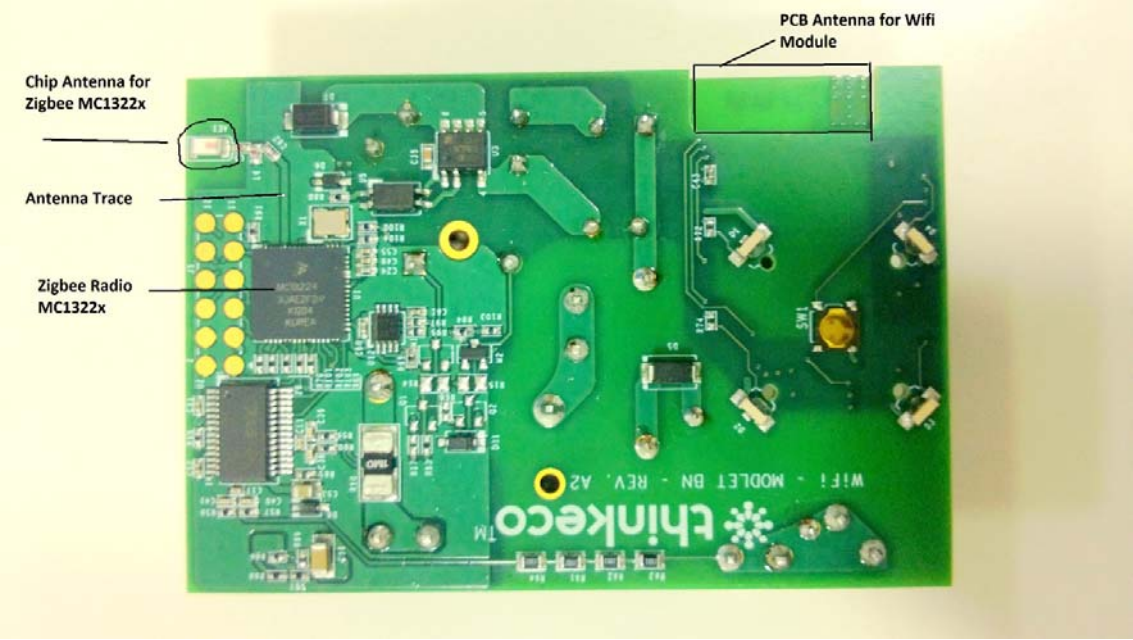
Antenna Info

WiFI Modlet BN can operate over either Wifi (IEEE 802.11b radio) or Zigbee (IEEE® 802.15.4) based wireless networks. The chip antenna soldered on the board is used for the Zigbee radio chip MC1322x and the PCB trace antenna is used for the gainspan GS1011MEPS WiFi Module which is present o n the WiFi module itself. Both the antennas are inaccesible to the user as the PCB is enclosed in a plastic housing.

WiFi Module GS1011MEPS along with the PCB trace antenna is already certified product from FCC and IC

Zigbee Radio MC1322x

Zigbee radio operates over 2.4 GHz IEEE® 802.15.4 Standard and uses a chip antenna (2450AT18A100 from JOHANSON TECHNOLOGY INC) with a matching circuit. The Freescale MC1322x chip limits power to 3 dBm. The chip antenna works in frequency range of 2400-2500MHz with a peak gain of .5 dBi and has an impedence of 50 ohm with a uniform radiation pattern.



WiFi Module GS1011MEPS

The GS1011MxxS module uses a fully integrated RF frequency synthesizer, reference clock and low power PA. Both TX and RX chain in the module incorporate internal power control loops. The module limits the output power to 18dBm and it incorporates a onboard printed trace antenna.

The WiFi module GS1011MEPS is a FCC and IC certified product, the corresponding IDs are present on the module itself as shown below