

# FW5301 Circuit Description

**FW5301** is the IEEE 802.11b/g/nUSB Mini Card which is based on Ralink RT2070 solution with a 40MHz frequency crystal for producing a signal to the RF module circuit carrying wave amplified by the amplifier and filter circuit unit, through the antenna then transmit out as 2412MHz to 2462MHz, and the RF module is used for producing digital modulation DSSS type.

The RT2070 is a highly integrated MAC/BBP and 2.4GHz RF single chip. It fully complies with IEEE802.11b/g standards, delivers reliable, cost-effective, feature rich wireless connectivity at high throughput from an extended distance. Optimized RF architecture and baseband algorithms provide superb performance and low power consumption. The intelligent MAC design deploys a highly efficient USB engine and hardware data processing accelerators without overloading the host processor. The RT2070 is designed to support standard based features in the areas of security, quality of service and international regulation, giving and users the greatest performance anytime in any circumstance.