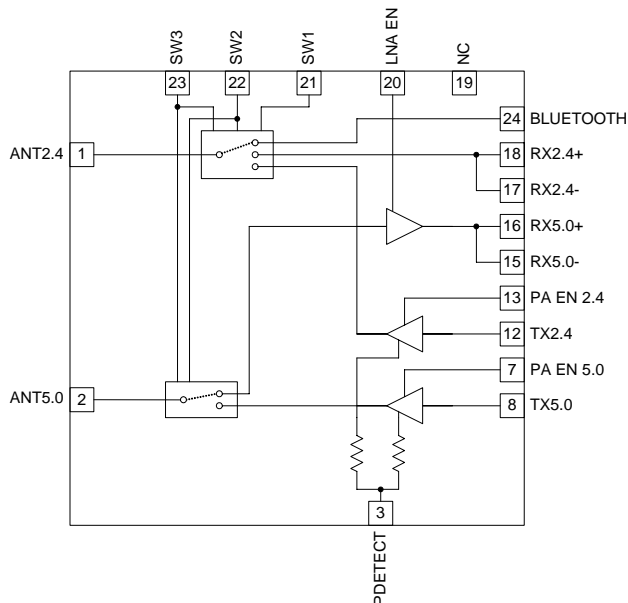


**Features**

- Single-Module Radio Front-End
- Single Supply Voltage 3.15V to 4.5V
- Integrated 2.5GHz & 5GHZ PA's, RX Baluns, Filters & Switches for TX & RX, and High Band LNA
- P<sub>OUT</sub> = 16dBm, 11g, OFDM < 3.3% EVM  
P<sub>OUT</sub> = 16dBm, 11a, OFDM < 3.3% EVM

**Applications**

- IEEE802.11a/b/g WLAN Applications
- Single-Chip RF Front-End Module
- 2.5GHz and 5GHz ISM Bands Applications
- Wireless LAN Systems
- Portable Battery-Powered Equipment



Functional Block Diagram

**Product Description**

The RF3388 is a single-chip dual-band integrated front-end module (FEM) for high-performance WLAN applications in the 2.5GHz and 5GHz ISM bands. The RF3388 addresses the need for aggressive size reduction for a typical 802.11a/b/g RF front-end design and greatly reduces the number of components outside of the core chipset thus minimizing the footprint and assembly cost of the overall 802.11a/b/g solution. The RF3388 contains integrated PA's for 2.5GHz and 5GHz, TX/RX switch for each band, LNA for the 5.0GHz receive band, baluns for both low and high receive bands, some bypass capacitors, built-in power detector for both bands, and some filtering for transmit and receive paths. The RF3388 is packaged in a 24-pin, 4mmx4mm QFN package with backside ground. The RF3388 greatly minimizes next level board space and allows for simplified integration.

**Ordering Information**

RF3388	3.7V, Dual-Band Front-End Module
RF3388PCBA-410	Fully Assembled Evaluation Board

**Optimum Technology Matching® Applied**

- |   |                                      |  |                                   |
|---|--------------------------------------|--|-----------------------------------|
| <input type="checkbox"/> GaAs HBT             | <input type="checkbox"/> SiGe BiCMOS | <input checked="" type="checkbox"/> GaAs pHEMT | <input type="checkbox"/> GaN HEMT |
| <input type="checkbox"/> GaAs MESFET          | <input type="checkbox"/> Si BiCMOS   | <input type="checkbox"/> Si CMOS               |                                   |
| <input checked="" type="checkbox"/> InGaP HBT | <input type="checkbox"/> SiGe HBT    | <input type="checkbox"/> Si BJT                |                                   |

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**RF3388**

*Proposed*

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