

## Applications

- IEEE 802.11ac, 802.11n WLAN Applications
- Single-Chip RF Front-end Module
- Dualband Wireless LAN Systems
- Portable Battery-Powered Equipment

## Product Features

- Fully Integrated, high performance 802.11ac front-end module including highly selective BAW filter achieving low insertion loss and high attenuation over full bandwidth and operating conditions
- Internally matched input/output
- Temperature Compensated Bias Network
- Single battery voltage of 3.0 V- 3.6 V
- Leadless 4.0 x 3.0 x 0.91 mm RoHS compliant SMT Pb-Free
- 5GHz Typ. Pout = 14.5 dBm, EVM = -37 dB, 802.11ac, MCS9, VHT80
- Performance -20 to +85 °C

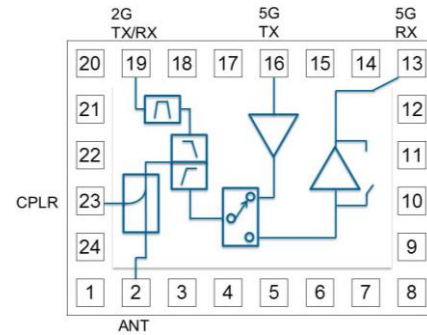
## General Description

The TQF6174 is a WLAN dualband, integrated front end module that consists of a dualband diplexer + coupler, 2.4 GHz BAW WiFi coexistence filter, and 5 GHz PA, LNA, and Switch. The dual band coupler at the antenna pin allows for monitoring of power in both 2.4 GHz and 5 GHz paths.

The TQF6174 integrated front-end module in an ultra-small, 4.0mm x 3.0mm footprint package for 802.11ac applications. The architecture and interface are optimized for next generation WLAN integration into handset and tablet devices.

The front-end module features chipset-specific compatible control voltages to facilitate ease of use. With its low power dissipation, the front-end Module contributes to the extended battery life of next generation WLAN solutions

## Functional Block Diagram



Top View

## Pin Configuration - Single Ended

Pin No.	Label
2	ANT
4	VCC1
6	VCC2
7	LNA_EN
9	Vdet
11	VCC_LNA
13	5G RX
14	5G PA_EN
16	5 TX
17	VMODE
19	2G TX/RX
23	COUPLER
1,3,5,8,10,12,15,18,20-22, 24,25,26	Ground

## Ordering Information

Part No.	Description
TQF6174	Packaged part
TQF6174-EVB	Evaluation board

Standard T/R size = 5,000 units/reel