

## TB32301AFL 2.4 GHz Radio Communication IC

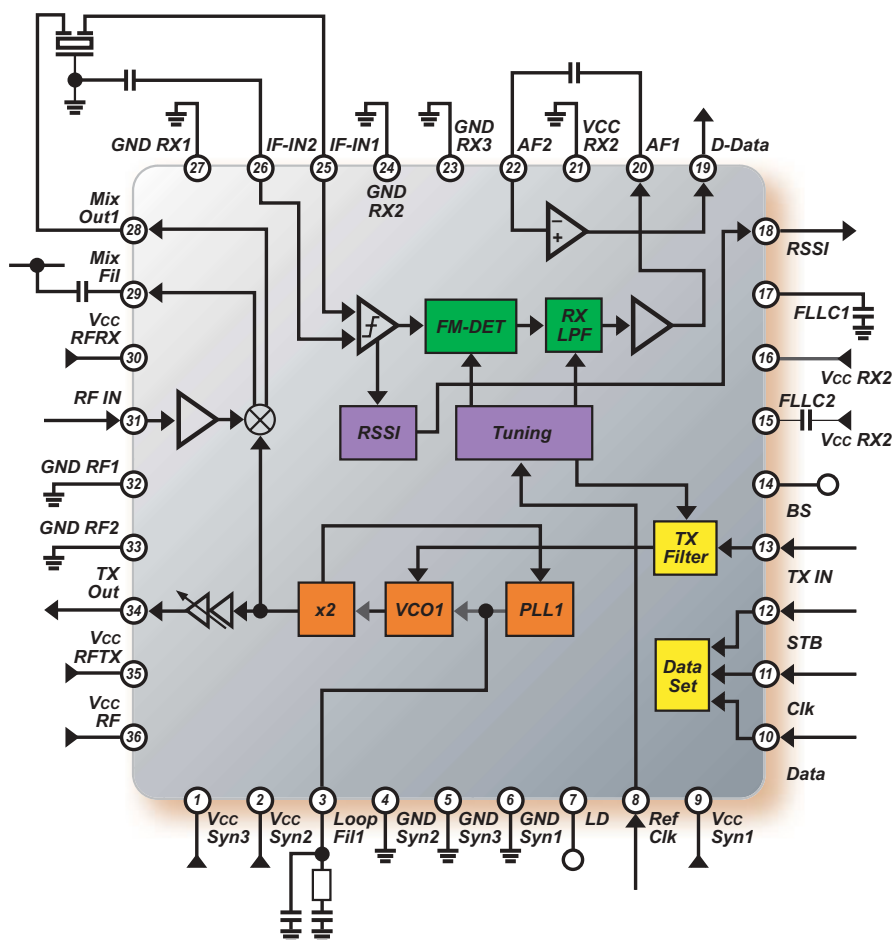
### Highlights

- Delivers the utmost flexibility in the design and development of RF communication products.
- For use in a wide range of applications including remote control, office and building security, wireless home networks, and many others.
- The device is manufactured in a BiCMOS process and comes in a very compact (QON) 36-pin package.

### Features

- BiCMOS process
- Super heterodyne receiver:  
No IF SAW filter is needed due to linear demodulator.
- Digital output on demodulator and digital input on modulator:  
High stability for noise interference
- Low-power consumption
- Operating clock frequency: 4–20 MHz
- Operating frequency: 2400–2500 MHz
- Operating power supply: 2.7 to 3.3V
- Operating temperature: –20 to +70°C
- Completely integrated transmit and receive
- Very low external components necessary
- Excellent sensitivity
- Small package: QON 36-pin (0.5 mm pitch)
- Low IF architecture
- High-level integration LNA, fully integrated VCO, PA, RSSI
- PA +3 dBm output power typical:  
Variable gain

**TB32301AFL Block Diagram**



# Product Brief

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