

## DESCRIPTION

The PT4317 is a low power single chip OOK/ASK superheterodyne receiver for the 315MHz and 434MHz frequency bands that offers a high level of integration and requires few external components. The PT4317 consists of a low-noise amplifier (LNA), down-conversion mixer, SAW-based local oscillator, on-chip gm-C band-pass filter, intermediate frequency (IF) limiting amplifier stage with received-signal-strength indicator (RSSI), and analog baseband data recovery circuitry (data filter, peak detector, and data slicer). The PT4317 is available in a 16-pin SSOP package.

## FEATURES

- Low current consumption (4.7mA at VDD=5.0V)
- 2.4V to 5.5V supply voltage operation range
- Optimized for 315MHz or 434MHz ISM Band
- Saw-based oscillator with low frequency drift
- On-chip IF filter with better adjacent channel rejection capability
- Power down mode with very low supply current (<1A)
- Low external parts count
- 16-pin SSOP package

## APPLICATIONS

- Remote Keyless Entry (RKE) systems
- Remote control systems
- Garage door openers
- Alarm systems
- Security systems
- Wireless sensors

## BLOCK DIAGRAM

