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Features

- 5.8 GHz Transceiver
- 5 dBm TX Output Power
- -97 dBm Sensitivity
- 1152 kBit/s Data-rate
- Supply-voltage Range 2.9V to 3.6V
- Low IF Receiver
- Low Current Consumption
- Few Low Cost External Components
- No Mechanical Adjustment Required
- Small 32 pin 5 mm × 5 mm QFN Package

Applications

- 5.8 GHz Digital Cordless Phones
- Game Controllers
- Wireless Head Set
- FCC Part 15 Compliant Radio Link

1. Description

The ATR2820 is a single-chip RF-transceiver for applications in the 5.8 GHz ISM band. The QFN32 packaged IC is a complete transceiver including image rejection mixer, low-IF filter, FM demodulator, RSSI, TX preamplifier, integrated PLL with fully integrated VCO. No mechanical adjustment is necessary in production.



Low IF WDCT 5.8 GHz Transceiver

ATR2820

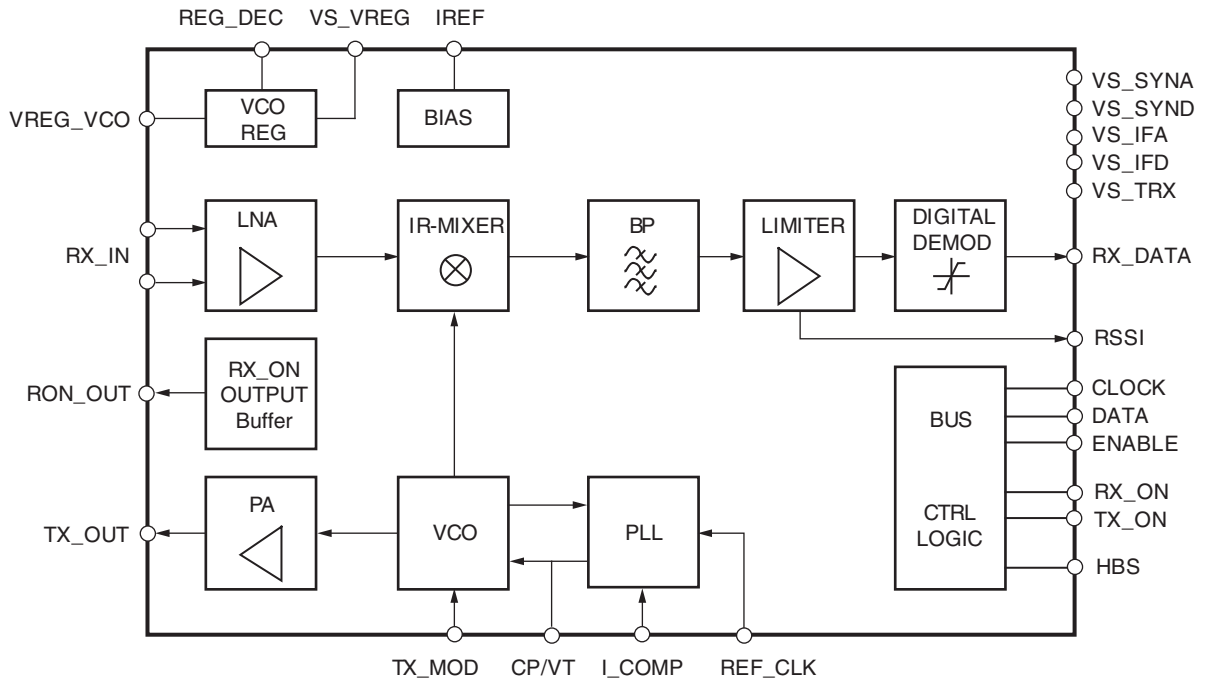
Summary

NOTE: This is a summary document. The complete document is available under NDA. For more information, please contact your local Atmel sales office.

4704BS-DECT-12/08



Figure 1-1. Block Diagram



2. Ordering Information

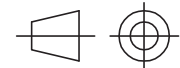
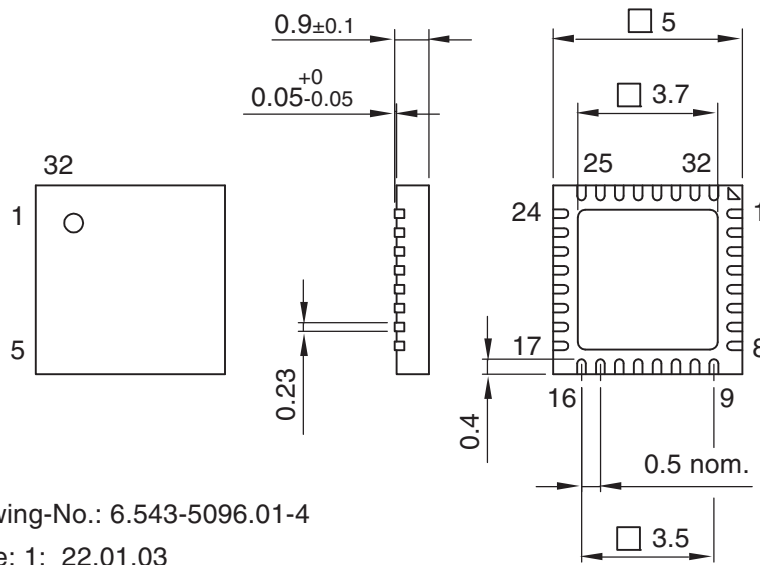
Extended Type Number	Package	Remarks
ATR2820-PNQG	QFN32, 5 mm × 5 mm	Taped and reeled

3. Package Information

Package: QFN 32 - 5 x 5
Exposed pad 3.7 x 3.7

Dimensions in mm

Not indicated tolerances ± 0.05



technical drawings according to DIN specifications

Drawing-No.: 6.543-5096.01-4

Issue: 1; 22.01.03

4. Revision History

Please note that the following page numbers referred to in this section refer to the specific revision mentioned, not to this document.

Revision No.	History
4704BS-DECT-12/08	<ul style="list-style-type: none"> Section 3 "Package Information" on page 3 changed



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