### **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  $\times$  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** 

**Preliminary** 

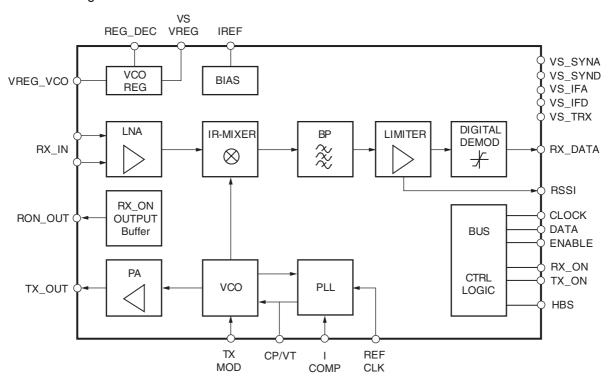
**NOTE:** This is a summary document. The complete document is available under NDA. For more information, please contact your local Atmel sales office.







Figure 1-1. Block Diagram



# 2. Ordering Information

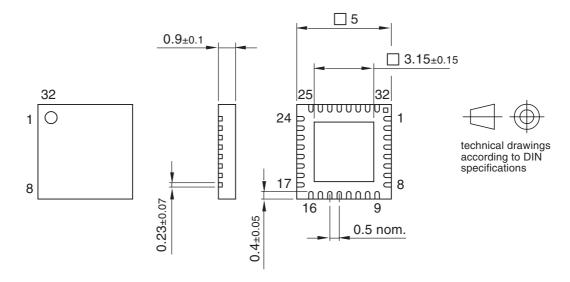
Extended Type Number	Package	Remarks
ATR2820-PNQG	QFN32, 5 mm $\times$ 5 mm	Taped and reeled

# 3. Package Information

Package: QFN 32 - 5 x 5 Exposed pad 3.15 x 3.15

(acc. JEDEC OUTLINE No. MO-220)

Dimensions in mm



Drawing-No.: 6.543-5087.01-4

Issue: 2; 24.01.03



## **Atmel Corporation**

2325 Orchard Parkway San Jose, CA 95131, USA Tel: 1(408) 441-0311 Fax: 1(408) 487-2600

### **Regional Headquarters**

#### Europe

Atmel Sarl Route des Arsenaux 41 Case Postale 80 CH-1705 Fribourg Switzerland

Tel: (41) 26-426-5555 Fax: (41) 26-426-5500

#### Asia

Room 1219 Chinachem Golden Plaza 77 Mody Road Tsimshatsui East Kowloon Hong Kong

Tel: (852) 2721-9778 Fax: (852) 2722-1369

#### Iavan

9F, Tonetsu Shinkawa Bldg. 1-24-8 Shinkawa Chuo-ku, Tokyo 104-0033 Japan

Tel: (81) 3-3523-3551 Fax: (81) 3-3523-7581

## **Atmel Operations**

#### Memory

2325 Orchard Parkway San Jose, CA 95131, USA Tel: 1(408) 441-0311 Fax: 1(408) 436-4314

#### Microcontrollers

2325 Orchard Parkway San Jose, CA 95131, USA Tel: 1(408) 441-0311 Fax: 1(408) 436-4314

La Chantrerie BP 70602 44306 Nantes Cedex 3, France

Tel: (33) 2-40-18-18-18 Fax: (33) 2-40-18-19-60

#### ASIC/ASSP/Smart Cards

Zone Industrielle 13106 Rousset Cedex, France Tel: (33) 4-42-53-60-00 Fax: (33) 4-42-53-60-01

1150 East Cheyenne Mtn. Blvd. Colorado Springs, CO 80906, USA

Tel: 1(719) 576-3300 Fax: 1(719) 540-1759

Scottish Enterprise Technology Park Maxwell Building East Kilbride G75 0QR, Scotland

Tel: (44) 1355-803-000 Fax: (44) 1355-242-743

#### RF/Automotive

Theresienstrasse 2 Postfach 3535 74025 Heilbronn, Germany Tel: (49) 71-31-67-0 Fax: (49) 71-31-67-2340

1150 East Cheyenne Mtn. Blvd. Colorado Springs, CO 80906, USA

Tel: 1(719) 576-3300 Fax: 1(719) 540-1759

#### **Biometrics**

Avenue de Rochepleine BP 123 38521 Saint-Egreve Cedex, France

Tel: (33) 4-76-58-47-50 Fax: (33) 4-76-58-47-60

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