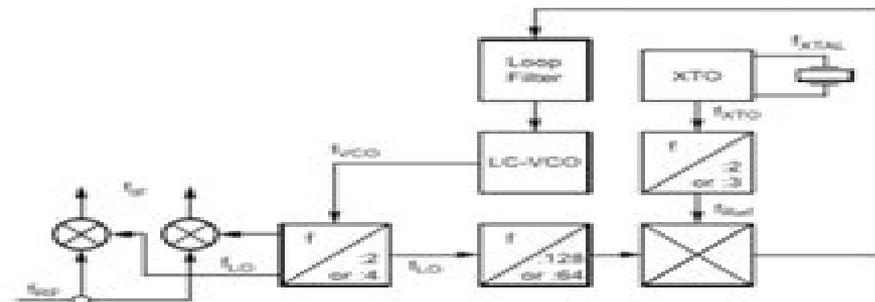## Introduction

The UHF receiver ATA5723, ATA5724, and ATA5728 are designed specially for automotive application like Remote Keyless Entry as well as Tire Pressure Monitoring System. These receivers are upgrades of ATA5743 and ATA5760. They have compatible pinning that allows the development of one layout for applications in three different ISM (Industrial Scientific Medical) frequency bands. The frequency ranges are 312.5MHz to 317.5MHz, 431.5MHz to 436.5MHz and 868MHz to 870MHz. Another benefit of the receiver is the reuse of the software from Atmel®'s older receiver, the ATA5743. Additional features include the RSSI output, the pierce crystal oscillator achieving a better oscillation margin, an improved sensitivity as well as the image rejection.

The purpose of this application note is to give a designer some hints how to start developing a receiver module with ATA5723/ATA5724/ATA5728.

Calculating the Required Crystal Frequency

Figure 1. System Block Diagram for the Receivers Containing the Internal Frequency Generation and Processing (Synthesizer)

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Table of Contents Application Note Atmel

1. Understanding the eBook Application Note Atmel
    - The Rise of Digital Reading Application Note Atmel
    - Advantages of eBooks Over Traditional Books
2. Identifying Application Note Atmel
    - Exploring Different Genres
    - Considering Fiction vs. Non-Fiction
    - Determining Your Reading Goals
3. Choosing the Right eBook Platform
    - Popular eBook Platforms
    - Features to Look for in an Application Note Atmel
    - User-Friendly Interface
4. Exploring eBook Recommendations from Application Note Atmel
    - Personalized Recommendations
    - Application Note Atmel User Reviews and Ratings
    - Application Note Atmel and Bestseller Lists
5. Accessing Application Note Atmel Free and Paid eBooks
    - Application Note Atmel Public Domain eBooks
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    - Application Note Atmel Budget-Friendly Options
6. Navigating Application Note Atmel eBook Formats

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