

# 1320x Development Kits

## Overview

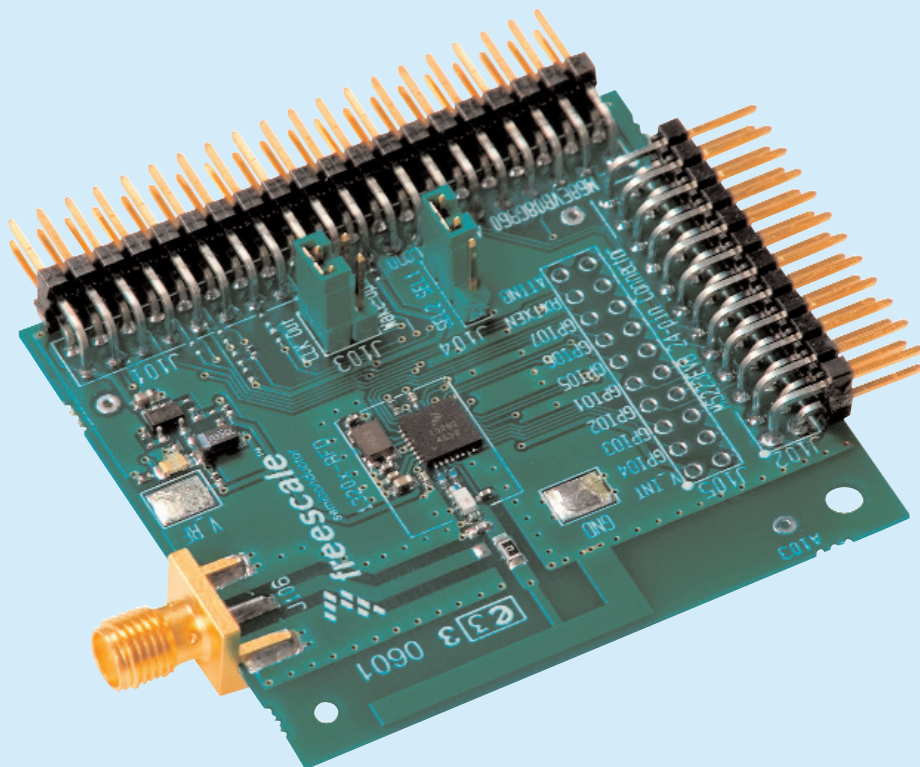
The MC1320x Family is Freescale's second-generation ZigBee™-compliant radio frequency (RF) integrated circuit (IC). Freescale offers a comprehensive development kit suite that provides customers with the necessary hardware and software to evaluate and develop wireless solutions which range from simple point-to-point networks to ZigBee mesh networks.

## Hardware

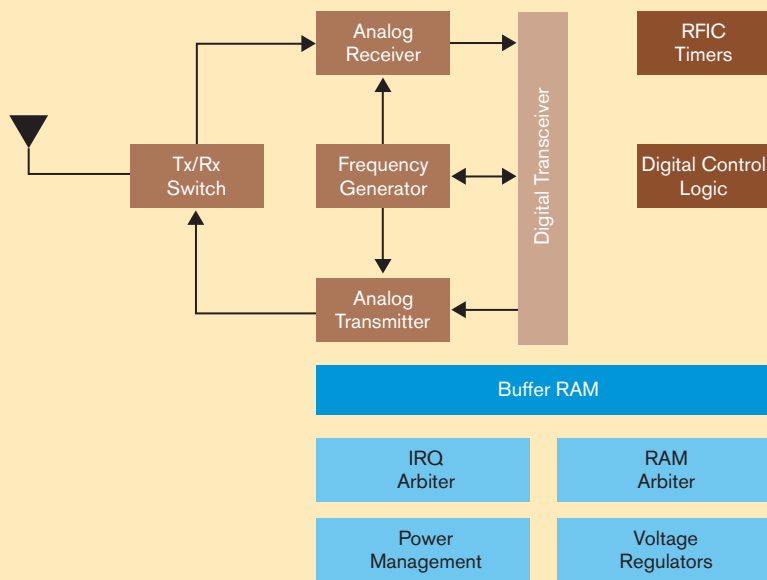
Freescale's 1320x 2.4 GHz RF daughter card provides connectivity to a variety of MCU development boards, including the HCS08, S12 and ColdFire® family of MCU development boards. The RF daughter card has a printed F-antenna and an SMA connector to allow developers to connect different antennae or interface directly to RF laboratory equipment. By programming the MCU development board, developers can run a variety of applications and develop customized applications.

## Software

The 1320x supports several protocol stacks and demonstration applications, depending on the MCU development platform to which it is connected. The Simple MAC (SMAC) is a simple protocol used for implementing simple point-to-point and star networks. Its small memory requirements, less than 2.5K of Flash, provide an ultra cost-effective solution for simple applications. The IEEE® 802.15.4-compliant MAC establishes robust building blocks that enable development of point-to-point, star and mesh networks. The Freescale Test Tool Application provides several applications, including a packet error rate (PER) test and an example of a star network based on the 802.15.4 MAC. Finally, users can use the ZigBee Stack to program the development boards to demonstrate a ZigBee-compliant mesh network.



## MC1320X



### Ordering Information

#### Part Number

1320x RFC

#### Description

1320x RF daughter card kit

#### Kit Contents

RF daughter cards

CD containing documentation and sample applications

Getting Started Guide

### Demonstration Applications

#### SMAC

- > Range
- > Packet Error Rate (PER)
- > Wireless Universal Asynchronous Receiver/Transmitter (UART)
- > Lighting

#### 802.15.4 PHY/MAC

- > Radio Test Tool Application
- > Network Application

### ZigBee Technology

- > ZigBee Application Network Demonstration (ZAND)
- > ZigBee Lighting Application

#### Features/Benefits

- > MC13203 ZigBee-Compliant 2.4 GHz RF Transceiver
- > Printed F Antenna
- > Scalable Software Support for Easy Development of Customer-Specific Network Topologies

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