

1320x Development Kits

Overview

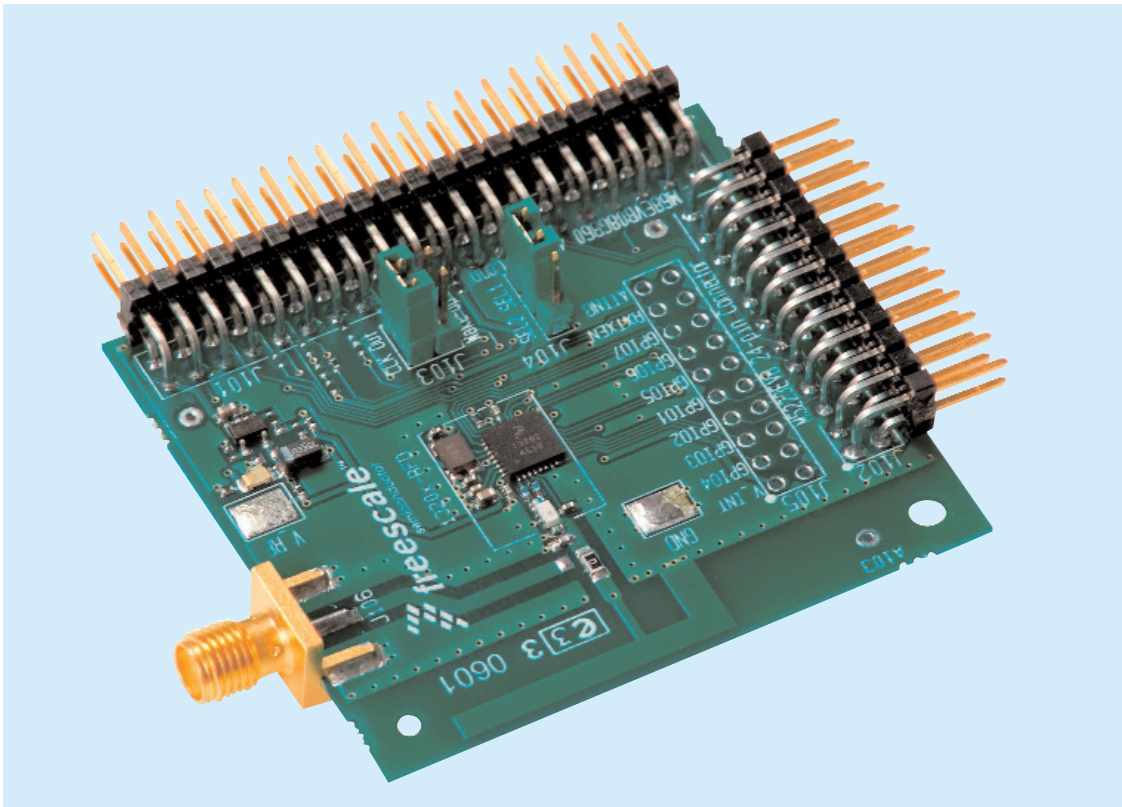
The MC1320x Family is Freescale's second-generation ZigBee™-compliant radio frequency (RF) integrated circuit (IC). Freescale offers a comprehensive development kit suite that provides customers with the necessary hardware and software to evaluate and develop wireless solutions which range from simple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

Hardware

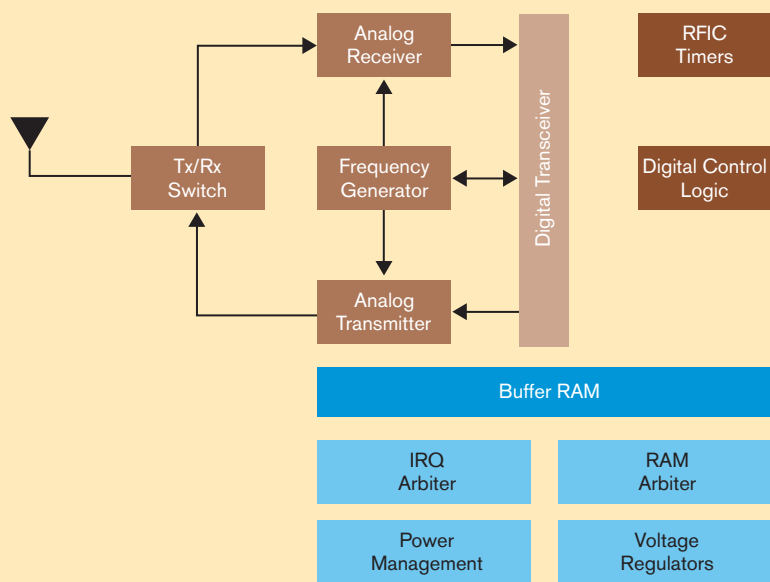
Freescale's 1320x 2.4 GHz RF daughter card provides connectivity to a variety of MCU development boards, including the HCS08, S12 and ColdFire® family of MCU development boards. The RF daughter card has a printed F-antenna and an SMA connector to allow developers to connect different antennae or interface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

Learn More: For more information about Freescale products, please visit www.freescale.com.