Features

♦ IEEE 802.15.4 PHY Evaluation of ZMD44102
♦ RF Characterization of 868MHz to 928MHz
♦ USB Interface
♦ Intuitive User Interface
♦ Configuration Tool
♦ Network Demonstration
♦ Creation of Wireless Applications
♦ ZMD's TSic™ Integrated Temperature Sensor

Description

The ZMD44102SKB Starter Kit Bundle (SKB) enables detailed evaluation of the ZMD44102 RF Transceiver using a simple Graphical User Interface (GUI) and provides basic communications software for application development. The SKB includes a development tools CD and a debug adapter for code compilation and installation. Also included is the Daintree Sensor Network Analyzer Basic Edition, custom-tailored to ZMD's SKB, which allows the designer to capture and evaluate IEEE 802.15.4 frame packets. Technical documentation for the ZMD44102 RF transceiver and the TSic™ temperature sensor is included.

The SKB's GUI includes a configuration tool to enable designers to control the ZMD44102 registers and establish a star network. The inclusion of ZMD's TSic™ temperature sensor provides a real-world example of a wireless sensor network. Network performance can be assessed using metrics, including LQI, RSSI, and Packet Success Rate.

Test Functionality

♦ **Physical Layer**
  • Range Performance
  • Barrier Penetration Performance (attenuation)
  • Transmitter Evaluation
  • Channel Characteristics
  • Register Access
  • CW Evaluation
  • PN Evaluation

♦ **Network Demonstration**
  • Prototype Network Development
  • LQI Evaluation
  • RSSI Evaluation
  • Packet Success Rate
  • ZMD's TSic™ Temperature Sensor

♦ **Application and Script Creation**
  • Register Access
  • Limited Compiler
  • Flash Tool

NOTE: The Starter Kit is available without the development environment for basic RF characterization (ZMD44102SK).

ZMD44102SKB Starter Kit Bundle

ZMD44102 Starter Kit Contents	SKB	SK
RF Board	3	2
RF Antenna	3	2
USB Cable	2	1
Battery Pack	2	1
ZMD Setup & Documentation CD	1	1
Daintree Sensor Network Analyzer	1	
Development Tools CD	1	
Debug Adapter	1	
Customer Cost per Kit (USD)	$399	$199

ZMD44102SK Starter Kit

For more information:

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