

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 Executable Applications
- ◆ ZMD's TSic™ Integrated Temperature Sensor

Description

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

The Starter Kit Bundle 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
 - Temperature Sensor
 - ZMD's TSic™ Temperature Sensor

- ◆ **Script Creation**
 - Register Access
 - Compiling Tool
 - Firmware Flash Executable Code

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	ZMD44102SK Starter Kit	
	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			
	SiLabs™ Development Tools CD	1			
	SiLabs™ Debug Adapter	1			
	Customer Cost per Kit (USD)		\$399		\$199

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