Starter Kit Brief



ISM Starter Kits

for SX1211, SX1223, XE1203, XE1205

General Description:

The Semtech ISM Starter Kits are transceiver development and evaluation platforms. The kits perform practical "demonstration", "range" and "site survey" testing to demonstrate a two-way communication between two radio boards and also evaluate the RF transceiver.

The Starter Kit performs basic functions of data link communication including access to all device registers and programming such as modulation schemes selection (FSK / OOK), configuration in the transmitter, receiver or sleep modes. Also featured are frequency deviation selection, filter bandwidth and output power management.

Each Starter Kit covers the basic setup and operation for the environment necessary for each of the devices listed in the ordering table. The Starter Kit allows you to:

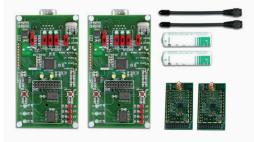
- Demonstrate two-way communication -Ping Pong Demo with a default configuration
- Change the settings of the Ping Pong Demo
- Configure internal registers of each transceiver for evaluation purposes
- Transmit and receive a data stream

Key Product Features:

Each starter kit contains the following information:

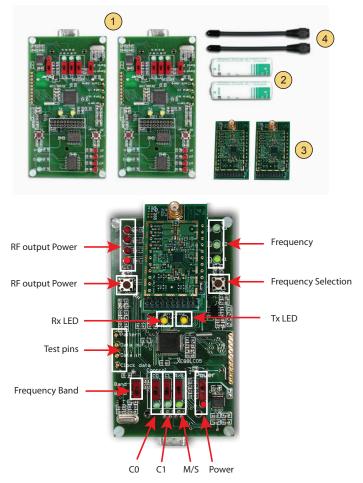
- General Introduction
- Overview and Installation
- Tutorial
- Functional Overview
- Test and Evaluation
- Advanced Features
- Troubleshooting





Starter Kit Brief

Starter Kit Components



Ordering Information

Part #	Starter Kit Order #	Description
SX1211	SX1211SK868	SX1211 Starter Kit 868Mhz
	SX1211SK915	SX1211 Starter Kit 915Mhz
SX1223	SX1223SK433	SX1223 Starter Kit 433Mhz
	SX1223SK868	SX1223 Starter Kit 868Mhz
	SX1223SK915	SX1223 Starter Kit 915Mhz
XE1203	XE1203SKC433XE2	XE1203 Starter Kit 433Mhz
	XE1203SKC868XE2	XE1203 Starter Kit 868Mhz
	XE1203SKC915XE2	XE1203 Starter Kit 915Mhz
XE1205	XE1205SKC433XE1	XE1205 Starter Kit 433Mhz
	XE1205SKC868XE1	XE1205 Starter Kit 868Mhz
	XE1205SKC915XE1	XE1205 Starter Kit 915Mhz

PC-GUI consists of a single fixed screen. The screen is presented to easily allow the user to manipulate the Sx12xx radio modules at the binary level. The PC-GUI screen is divided into seven primary areas as shown in the diagram below.

Note: The actual PC-GUI presentation may differ as new features and updates are added to PC-GUI software.

A brief description is:

- (A) Main Menu Bar with pre-defined configuration information
- (B) SX12xx Registers presentation and set-up window
- (C) Real time display window of register values (New and Current value)
- (D) SX12xx Operating Mode and set-up window
- (E) SX12xx Status display
- (F) SX12xxSK Control window
- (G) Selection of the Application

🚾 SX1211SK - SX1211 Evaluation 📃 🗖 🔀			
Ele Gum Port Beset Band Bredefined Ping-Pong Synx Word Data Handlers Help			
	Ykyrx.		
SX121 Register: MC1 ML2 IHU HX STRL IX USL PK 7 0 New Carest 7 0 New Carest	RF Frequency (RF): 908'000'000 Hz Synthesizer Registers Sets 00 Set 0 0 Set 1 R 107 107 r 60 90 S 60 90		
7 0 New Current 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	FRS Educities Tayel RF incurry. Hc Calculate General 915L 915H 0 68/350 Modulation scheme : © FSK 0 00K Fdev /IF2: 50.00 kHz 50.00 kHz Strate : 22.00 kDpt 50.00 kHz		
	Fix 378 kHz Partive Filer to : 378 kHz Public Comparison 100000 kHz Public Comparison 100000 kHz Interpolator Filer to : 200000 kHz		
Sleep Synthesizer O Receiver Standby Status Transmitter	Interplated high re: 20000 kHz Transmit Output Power: 10 dBm SX1211 Evaluation COM1		

Visit our website to locate the most current product specifications, datasheets and contact information for your local Semtech Field Applications Engineer.



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