



XEMICS

Product Brief XE1201A -CTD
Complete Transceiver
Demonstrator



XE1201A - CTD

Complete Transceiver Demonstrator

General Description

The XE1201A-CTD is a self-contained embedded demonstration tool used to demonstrate our chips functionalities. It is comprised of 4 unit demonstrators; each of them made of one XM1201A module and one XE88LC05 micro-controller board. The XE88LC05 is fully loaded with software that enables a point-to-point or a point-to-multipoint wireless communication between the units.

Box Contents

- 4 unit demonstrators
- XE1201A - CTD User Guide
- XEMICS Corporate CD ROM

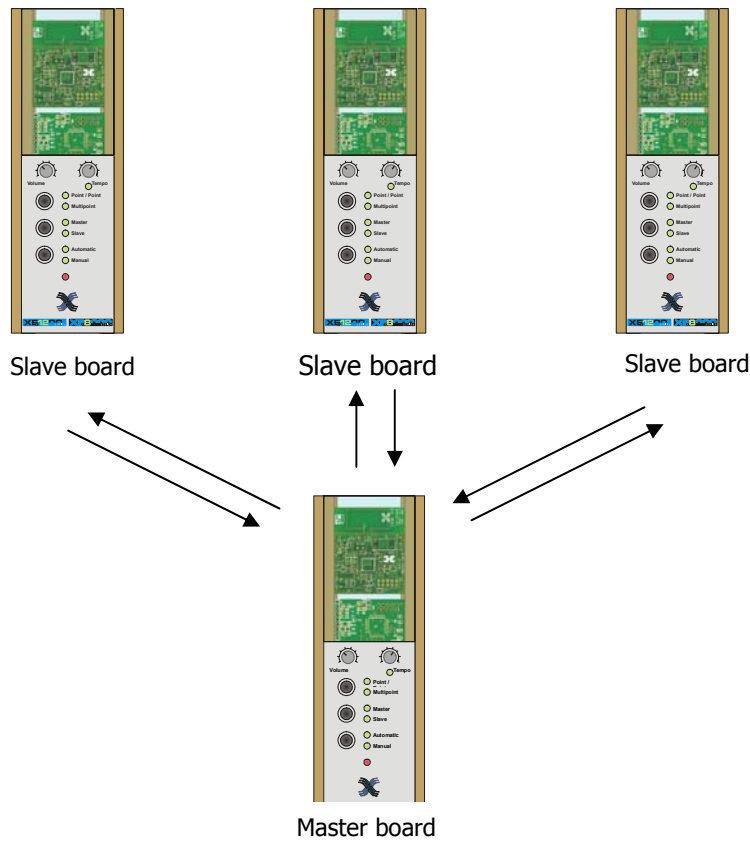
XE1201A - CTD hardware Set-up

Each demonstrator can be placed anywhere in a room. One of them has to be configured as the Master and the others as Slaves. There are two ways to use this demo kit: either automatically or manually. In any case, the result will be the playing of the musical scale.

You do not need any other material or any specific configuration for this demo. The connection between these demonstrators is made with the combination of our XE1201A transceiver and our XE88LC05 microcontrollers

Cool Solutions for Wireless Connectivity

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Features of the XE1201A

- User-friendly software
- Supply voltage 2.4 to 5.5V
- RF Output Power 5.5 dBm max
- Data rate 64 kbit/s
- Sensitivity -107dBm
- Carrier Frequency 433MHz
- Current Consumption 16 mA (Tx mode)
6.5 mA (Rx mode)
- Printed Loop antenna

Features of the XE88LC05

- Low-voltage, down to 1.2 V
- Low-power operation:
 - < 300 uA @ 1 MHz (MTP memory)
 - < 10 uA @ 32 kHz
 - < 1 uA, standby mode (Xtal clock on)
- 16 + 6 bits ZoominADC, 16 bits DAC
- < 100 nA, sleep mode
- 8-bit RISC architecture
- 8 kWords ROM or MTP (= 22 kBytes)
- 512-768 bytes RAM

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