

Features

- ◆ ISM band transceiver with RF and base-band
- ◆ Direct Sequence Spread Spectrum (DSSS)
- ◆ Data rate burst 20 kbit/s
- ◆ Transmit range up to 100 meter (LoS)
- ◆ Low power consumption for battery operated devices
- ◆ RS-232 serial interface
- ◆ IEEE 802.15.4 compliant
- ◆ Available in 48-pin TQFP

Operating Reference Data

Temperature Range -40 to 85°C
 Supply Voltage, V_{DD} 2.4 V
 Typical Supply Current (Tx active) < 15 mA
 Typical Supply Current (Rx active) < 20 mA
 Typical Supply Current (power-down) < 10 μ A
 Frequency Range 868 to 928 MHz

Description

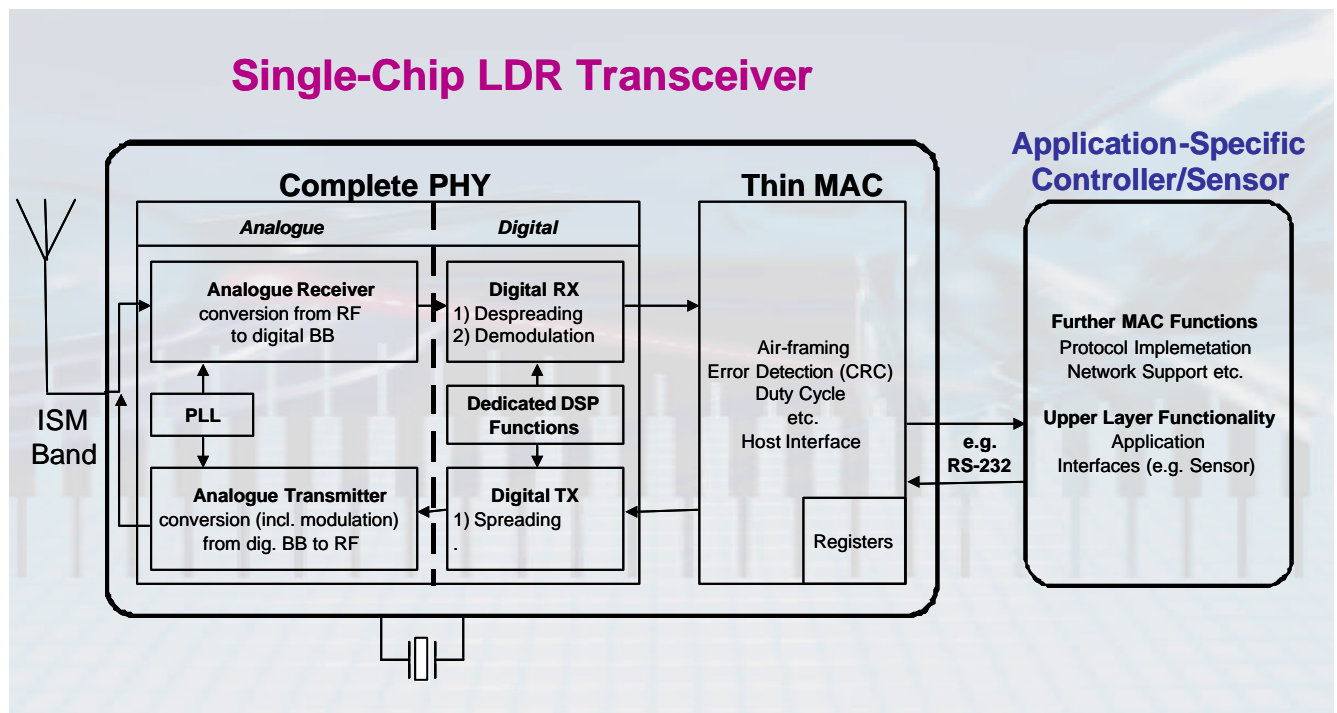
The ZMD44101 is a fully integrated CMOS single-chip 868/915 MHz RF and base-band transceiver for low cost, low power consumption, and low data rate wireless applications. The device incorporates direct sequence spread spectrum (DSSS) to assure secure and reliable data transfer in hostile RF environments.

The transceiver operates in the license-free ISM band (868 MHz in Europe and 915 MHz in North America) and includes a thin Media Access Controller (MAC).

Applications

- Remote Keyless Entry (two-way)
- Remote Metering
- Home Networking
- Industrial Networks
- Automotive Networks
- Interactive Toys

Block Diagram



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