

LimeSDR

LimeSDR USB Type-A & Acrylic Case

Product Overview

09/09/2025

For the most up-to-date information, visit www.mouser.com or the supplier's website.

Description

The LimeSDR is an open-source, Software Defined Radio (SDR) platform based on Lime Microsystem's latest generation of field programmable RF transceiver technology, combined with FPGA and microcontroller chipsets. This board connects to a computer through a USB 3 Type-A interface. LimeSDR handles wireless data transmission, while the CPU supplies the processing power needed to manage incoming signals and generate data for transmission to other devices.



Acrylic case for LimeSDR provides a durable and lightweight protective enclosure specifically designed for the LimeSDR platform.



Features

- Lime Microsystems LMS7002M MIMO FPRF transceiver
- Altera Cyclone IV EP4CE40F23 and also compatible with EP4CE30F23 FPGA
- 256MB DDR2 SDRAM
- Cypress USB 3.0 CYUSB3014-BZXC controller
- Rakon RPT7050A @ 30.72MHz oscillator
- 100KHz to 3.8GHz continuous frequency range
- 61.44MHz bandwidth
- 10 U.FL connectors (6 RX and 4 TX)
- Up to 10dBm power output
- 2 x 2 MIMO
- micro-USB connector or optional external power supply
- Programmable LEDs
- 100mm x 60mm dimensions

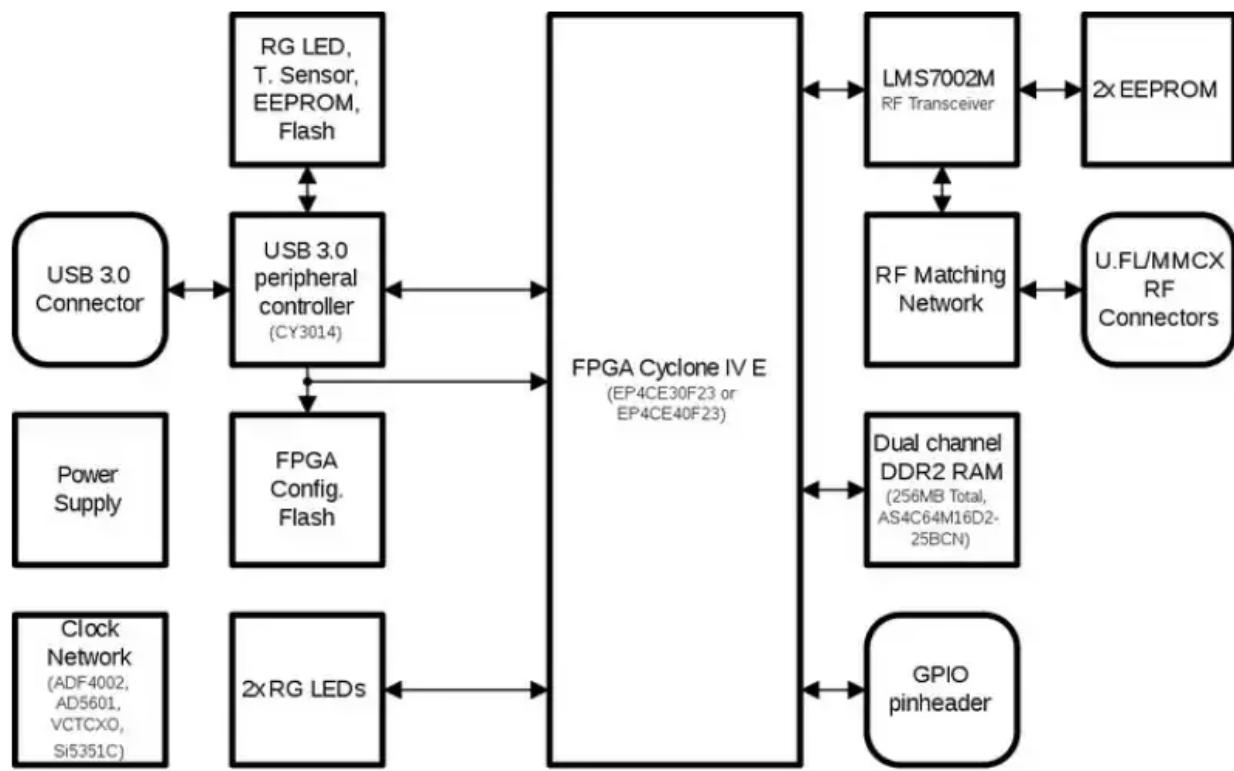
Applications

- Radio astronomy
- RADAR
- Media streaming
- IoT gateway
- HAM radio
- Wireless keyboard and mice emulation and detection
- Aviation transponders
- Test and measurement

LimeSDR PCBA Top and Bottom view



Block Diagram



Launched On

CROWD SUPPLY

[LimeSDR](#) launched on Crowd Supply in November 2024

Mouser Part Numbers

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