

LiFi LimeSDR Kit

Enables prototyping of visible light communication systems with LimeSDR



General Description

LiFi LimeSDR Kit is a plug-and-play solution designed for LimeSDR platforms to experiment with visible light communication systems. It includes custom-design front-ends which have a wide bandwidth (20 MHz) to support even the most demanding video streaming applications. The transmitter has a powerful 5000K 186 lumen LED with an interchangeable lens mechanism. The receiver features a photodetector with a field-of-view of 170° enabling a robust performance in non line-of-sight conditions.

Main Features

- Plug-and-play solution for LiFi R&D
- Bundled & tested with LimeSDR USB
- Access to extensive LimeSDR library
- 170° detector field-of-view
- 186 lumen LED
- Interchangeable lens mechanisms
- 50 Ohm I/O impedance

Kit Content

- LiFi TX
- LiFi RX
- 2 X LimeSDR USB (Modified for LiFi)
- 2 X SMA to U.fl cable
- 2 X USB 3.0 Extension Cable
- 5V DC Adapter for LiFi TX
- 24V DC Adapter for LiFi RX



LiFi Tx

LiFi Rx



LimeSDR USB

