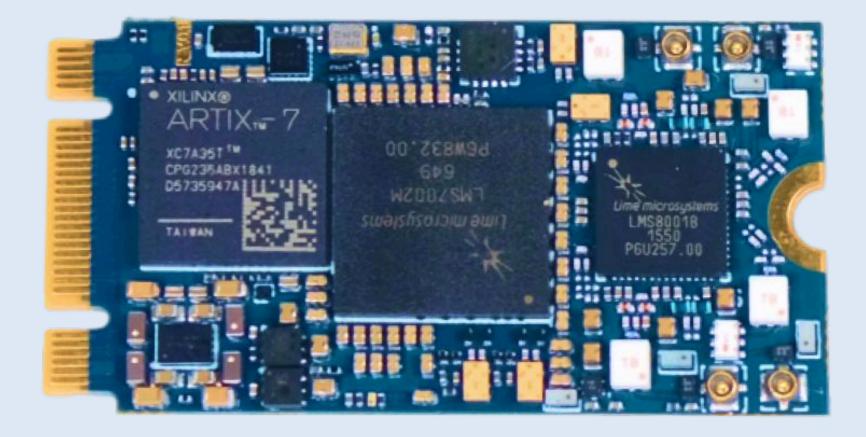


2 RX/TX channels M.2 single side components and extended frequency range SDR

The sSDR is a compact M.2 software-defined radio card with an expansive RF range from **30 MHz to 8.5 GHz**, covering **5G** (7.125), the latest WiFi, radio links, and many more. Paired with wsdr.io and various host devices, it enables the rapid development of custom RF





solutions.

### **FPGA**

AMD XILINX XC7A35T

# HOST INTERFACE

M.2 2242 B+M key (USB 2.0 & PCIe 2.0 x2)

# EXTENDED POWER SUPPLY RANGE

2.85 - 5.5 V

## **POWER CONSUMPTION**

1.9W Typical 3W Max

# EXTERNAL CLOCK SYNCHRONIZATION

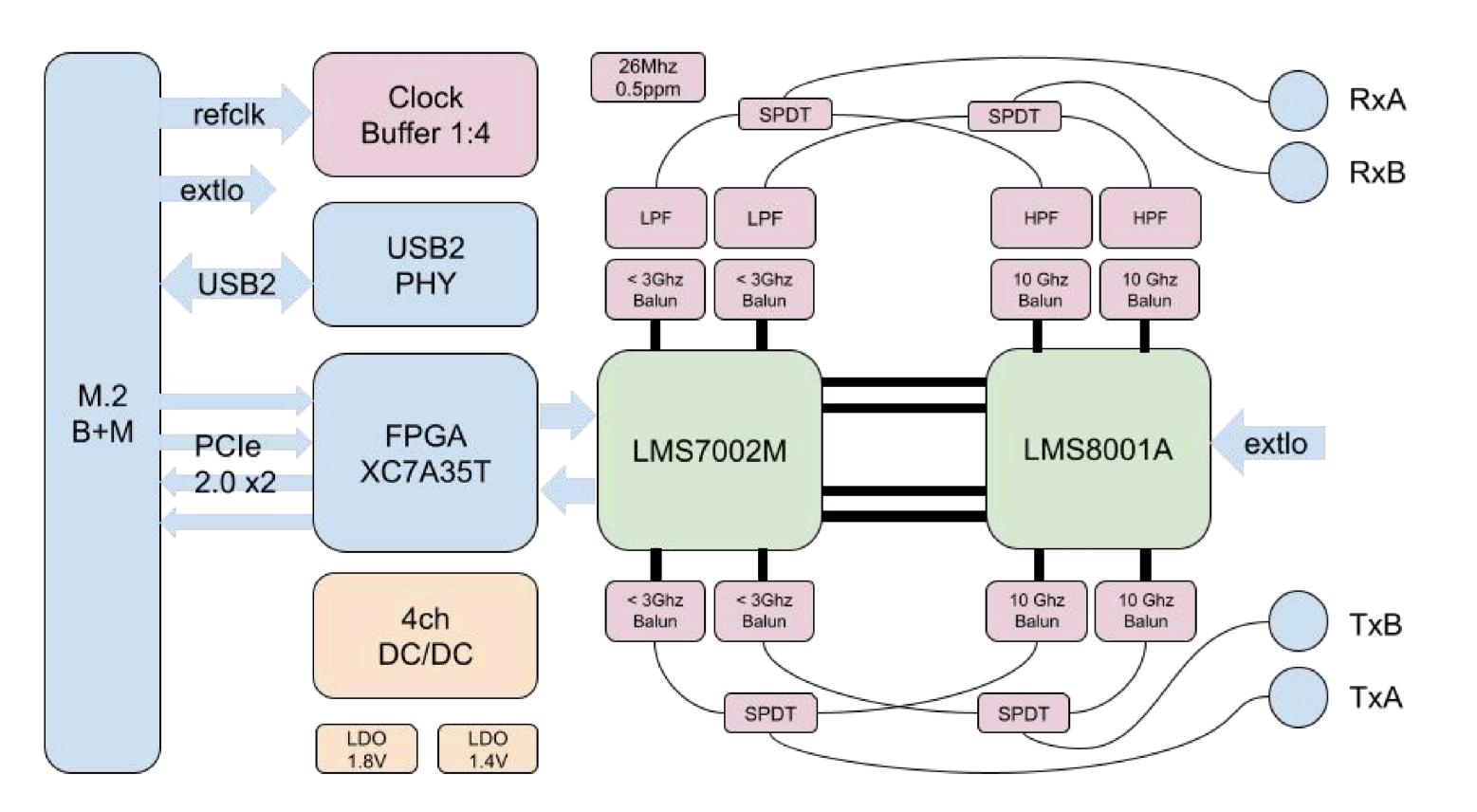
Synchronize multiple boards for a multi-channel array.

# **RF SPECIFICATION**

# RFICFREQUENCY RANGELMS7002M + LMS800130 MHz to 8.5 GHz

**SAMPLE RATE** 0.1MSps - 100 MSps

# **CHANNEL BANDWITH** 0.5Mhz - 90 MHz



# **TARGET APPLICATIONS**

**CELLULAR COMMUNICATION** 

Establish dedicated wireless networks by implementing eNodeB, or gNodeB systems via open-source solutions like srsRAN or Amarisoft. Building a dedicated high-frequency radio link

#### **EMBEDDED**

Develop compact and high-performance frequency analysis devices

# **DATA LINK**

Build a communication channel between points worldwide via a web platform

## **LEGACY SOFTWARE**

GNU Radio, srsRAN, and many more through SoapySDR

wavelet-lab.com crowdsupply.com/wavelet-lab contact@wavelet-lab.com github.com/wavelet-lab