



PluSDR LiteTM

Software-Defined Radio Platform

Small in size. Big in performance.

100 MHz bandwidth & 6 GHz coverage in one compact device

The YTTEK PluSDR Lite is a powerful and versatile SDR platform designed to redefine wireless system development and verification with a very affordable price. It accelerates communication system development while serving as a flexible and efficient verification tool. Additionally, it can function as a standalone end-product capable of directly executing tasks. With frequency coverage up to 6 GHz, bandwidth support up to 100 MHz, it is an ideal choice for high-performance and easily accessible SDR platform.

Intuitive example codes for accelerating development

With support for Python, MATLAB, and C++, the PluSDR Lite includes extensive free example code for rapid prototyping—enabling easy configuration as an arbitrary waveform generator, a spectrum analyzer, or even a real-time wireless communication system.

Non-signaling test function

Users can easily transmit and receive raw I/Q data with the PluSDR Lite platform, enabling it to serve as an arbitrary waveform generator, spectrum and signal analyzer, or real-time wireless system for 5G sub-6 GHz, 4G LTE, WiFi, NB-IoT, Bluetooth, and more—using Python, C++, or MATLAB.

Applications

Academy and R&D

Key features

- Covers frequencies from 300 MHz to 6 GHz
- Up to 100 MHz bandwidth
- Intuitive, free example code included
- Applicable to multiple wireless communication standards

Specifications

Item	Spec
Frequency range	300 MHz – 6 GHz
Max. bandwidth	100 MHz per channel
Number of channels	Max 2TX, 2RX
Scalability	N/A
RX gain range (dB)	50
RX gain step (dB)	0.5
RX max. input power (dBm)	+10
RX sampling frequency (MHz)	122.88
TX power control range (dB)	50
TX power control resolution (dB)	0.25
TX max. output power (± 0.5 dBm)	
700 MHz	18
3.5 GHz	16
5.5 GHz	16
TX sampling frequency (MHz)	122.88
Software	Python, MATLAB, C/C++
Synchronization	<ul style="list-style-type: none"> • REF IN (10 MHz clock reference input) • REF OUT (10 MHz clock reference output) • TRIG IN
Peripherals	<ul style="list-style-type: none"> • 3.5mm SMA female connectors • 1 RJ45 (1 GbE) • 1 Type C USB to JTAG
Power	12 V, 2 A
Dimension (mm)	134.7 x 86 x 45.6
Weight	270 g



Contact us for more information.

Tel: +886 3 668 8241
 Email: sales@yttek.com
 Web: www.yttek.com

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