



# PluSDR<sup>TM</sup>

Software-Defined  
Radio Platform

## Unlock remarkable throughput and flexibility 400 MHz bandwidth, Up to 15 GHz frequency

The YTTEK PluSDR series is a powerful, flexible SDR platform that transforms wireless system development and verification. Covering frequencies up to 15 GHz, it uniquely supports both X-band and Ku-band transceivers in a single unit, as well as BT, Wi-Fi, 5G NR, and LEO/GEO communication. Offering up to 400 MHz of bandwidth for Wi-Fi 7 and 5G FR2, the PluSDR ensures seamless integration of cutting-edge communication technologies.

### **Intuitive example codes for accelerating development**

With support for Python, MATLAB, and C++, the PluSDR 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.

### **Support professional mmWave OTA testing**

Equipped with a unique DCI interface, the PluSDR seamlessly integrates with YTTEK's mmWave FEM for beamforming, beam steering, and beam management research—allowing system innovators to rapidly conduct mmWave over-the-air (OTA) tests.

### **Applications**

Academy and R&D

### **Key features**

- Covers frequencies from 10 MHz to 15 GHz
- Up to 400 MHz bandwidth
- Intuitive, free example code included
- Suitable for multiple wireless communication standards

## Specifications

Model name	YTPC400	YTPC100	YTPC056
Frequency Range	10 MHz – 15 GHz	300 MHz – 6 GHz	70 MHz – 6 GHz
Max Bandwidth	400 MHz per channel	100 MHz per channel	56 MHz per channel
Number of channels	Max. 2TX, 2RX	Max. 4TX, 4RX	Max. 4TX, 4RX
Scalability	N/A	Max. 4 units for 16TX, 16RX	Max. 4 units for 16TX, 16RX
RX Gain Range (dB)	60	30	60
RX Gain Step (dB)	0.25	0.5	1
RX Max. Input Power (dBm)	+10	+4	N/A
RX Sampling Frequency (MHz)	31-800, 983.04	122.88	61.44
TX Power Control Range (dB)	60	40	40
TX Power Control Resolution (dB)	0.25	0.25	1
TX Sampling Frequency (MHz)	31-800, 983.04	122.88	61.44
Software	Python, MATLAB, C/C++	Python, MATLAB, C/C++	Python, MATLAB, C/C++
Synchronization	<ul style="list-style-type: none"> <li>REF IN (10MHz clock reference input)</li> <li>REF OUT (10MHz clock reference output)</li> <li>TRIG IN</li> </ul>	<ul style="list-style-type: none"> <li>Clock reference with external clock and synchronous signal</li> <li>TRIG IN</li> </ul>	<ul style="list-style-type: none"> <li>Clock reference with external clock and synchronous signal</li> <li>TRIG IN</li> </ul>
Peripherals	<ul style="list-style-type: none"> <li>3.5mm SMA female connectors</li> <li>1 RJ45 (1 GbE)</li> <li>1 Type B USB to JTAG</li> </ul>	<ul style="list-style-type: none"> <li>3.5mm SMA female connectors</li> <li>1 RJ45 (1 GbE)</li> <li>2 SFP+ ( 2 10GbE)</li> <li>1 Type B USB to JTAG</li> </ul>	<ul style="list-style-type: none"> <li>3.5mm SMA female connectors</li> <li>1 RJ45 (1 GbE)</li> <li>2 SFP+ ( 2 10GbE)</li> <li>1 Type B USB to JTAG</li> </ul>
Power	12V	12V	12V
Dimension (mm)	315.5 x 366.2 x 75.5	327.9 x 318 x 69.4	327.9 x 318 x 69.4
Suitable for Wireless Communication Standards	Wi-Fi 6, Wi-Fi 6E, Wi-Fi 7, 5G FR1, 5G FR2, 5G FR3, 3GPP NTN, CCSDS, DVB-S2, DVB-S2X		



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