



# PluSDR™

Software-Defined  
Radio Platform

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

The YTTEK PluSDR series is a powerful and versatile SDR platform designed to redefine wireless system development and verification. 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 15 GHz and bandwidth support up to 400 MHz, it is an ideal choice for high-performance SDR platform.

### 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.

### Real-time satellite modem integration

YTTEK integrates a real-time modem function within PluSDR, supporting up to 400 MHz of bandwidth for satellite communications. This includes compatibility with CCSDS and DVB-S2 protocols, ensuring seamless integration of advanced communication technologies.

### Applications

Academy and R&D

### Key features

- 10 MHz-15 GHz frequency coverage for 6G FR3 and SatCom Ku-band
- Up to 400 MHz bandwidth
- Intuitive, free example code included
- Applicable to 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	0
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 Max Output Power (dBm) *Varied by Frequency	< +20	< +19	< +8
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



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