

## Datasheet

# 360° 5GHz 867Mbps 2km Long-range

# Outdoor Wireless Transmitter

WI-CPE821



## Overview

Wireless Transmitter is equivalent to a network cable, transmitting network signals via wireless way. It uses wireless communication technology to transmit network data using air as a medium to carry out long-distance point-to-point or point to multi-point interconnection.

Wi-Tek Wireless Transmitter is specialized for rural internet access, long-distance wireless data transmission, wireless coverage extension, and other industrial wireless solutions. It is widely used in various fields of communication.

## Features

### Ultra-bandwidth

Offer ultra-bandwidth wireless up to 867Mbps by adopting excellent 5GHz solution, and 1000Mbps RJ45 port, greatly improves the efficiency of data transmission.

### 360° Omnidirectional Wireless Transmission

360° horizontal beamwidth, perfect choice for PTMP applications.

### Long-Distance Data Transmission up to 2km

Provide long-distance wireless network transmission up to 2km with a high-performance 12dBi Directional Antenna, making it an ideal choice for outdoor wireless network transmission.

### One-touch Quick Pairing

No more configuration required, quick pairing with a button.

\*This function is currently supported quick pairing with WI-CPE800-KIT (V3).

### IEEE 802.3af/at PoE power supply

Support IEEE 802.3af/at PoE power supply, which can be flexibly installed according to the application scenarios.

### Wi-Tek Cloud Management

Wi-Tek Cloud's quick installation and configuration provide reliable performance, visual management, and remote access which is easy operation and maintenance.

## Specifications

Products	WI-CPE821
Hardware version	V1
Hardware Features	
Interface	1*10/100/1000Mbps PoE IN RJ45 port
Frequency Range	5.150 ~ 5.850GHz (Channel 36~64, 100~144, 149~165) *Please follow national regulations to select the appropriate frequency.
Compliant Standards	IEEE 802.11a/n/ac
Maximum Wireless Rate	867Mbps@5GHz
Antenna Gain	Build-in 12dBi omnidirectional antenna
Half Power Beamwidth (Typ.)	Horizontal: 360°, vertical: 9°
Transmit Power	26dBm max. (adjustable)
Recommended Distance	2km
LED Indicator	1*PWR, power indicator, 1*Wi-Fi indicator
RST button	Short press: Search for another CPE mode wireless transmitter (the default mode of WI-CPE821 is base station mode) and pair each other. Long press over 5 seconds: Restore the factory default configuration.
Power Supply	PoE IN: IEEE 802.3af/at
Power Consumption	<10W
Dimensions(W*D*H)	100*79*595mm
Weight	0.80kg
Package Dimensions	745*107*85mm
Package Weight	1.70kg
Installation	Wall/Pole mounted
Material	Outdoor UV Stabilized Plastic
Reliability	
ESD Protection	Contact discharge: ±6kV, Air discharge: ±8kV
Lightning Protection	4kV
Operating Environment	-30°C to 60°C, 5%~95% (non-condensation)
Storage Environment	-40°C to 75°C, 5%~95% (non-condensation)
Ingress Protection	IP65

## Software Features

Products	WI-CPE821
Hardware version	V1
Software Features	
System Status	System information, Wireless information, Radio status, Flow Chart, Wireless Terminal Station
Operating Mode	Base Station (Default mode) CPE/Repeater/WISP Mode (Switch the paring mode to control by web)
WAN Configuration	Dynamic IP, Static IP
Wireless Configuration	Wireless enable/disable, Hide SSID Wireless Security: OPEN, WPA-TKIP, WPA2-AES, WPA/WPA2-Mixed, WPA-Enterprise, WPA2-Enterprise
Radion Parameter	WMM, Weak Signal Rejection Threshold, Wireless Channel, Tx Power Control Channel Bandwidth: Auto/20/40/80MHz
Advanced	Wi-Fi Connection Filter, Speed Test, Ping Watchdog, Scheduled Reboot, NTP, Ping, Traceroute
Management	Local WEB management, Remote Wi-Tek Cloud management

## Package Content

Welcome to order our products. After purchasing, you will receive:

Item	Quantity
Wireless Transmitter	1 pcs
48V PoE Adapter	1 pcs
Pole-mounted Accessory	1 pcs
Quick Installation Guide	1 pcs



Wireless-Tek Technology Limited

Address: Building 3, Units 1801-1807, 1812, Huaqiang Era Plaza,  
Tangwei Community, Fuhai Street, Bao'an District, Shenzhen City,  
Guangdong Province, China.

Website: [www.wireless-tek.com](http://www.wireless-tek.com)

Tel: 86-0755-32811290

Email: [sales@wireless-tek.com](mailto:sales@wireless-tek.com)

Technical Support: [tech@wireless-tek.com](mailto:tech@wireless-tek.com)



Technical Support



Cloud Management



Company Website