

## Datasheet

# 5GHz 867Mbps 3km Long-range Outdoor Wireless Transmitter

WI-CPE511H-KIT

Hardware Version: V2



## Overview

Wireless transmitters use wireless to build a communication bridge between two or more networks. With the advantages of wireless high bandwidth, long distance, flexible point-to-point, point-to-multipoint applications, and high reliability and protection design, they can be widely deployed in CCTV applications in open areas such as highways, parks, forests, building tower cranes, or elevator shafts, eliminating the trouble of wiring.

## Features

### Easy to Setup

No software setup is required, and once powered on, the PTP application is connected automatically. The DIP switch, LED display and quick pairing function button can help with quick pairing.

### Ultra-bandwidth

Offer wireless rate up to 867Mbps by adopting 5GHz solution, and 100Mbps RJ45 port, greatly improves the efficiency of data transmission.

### Long-Distance Data Transmission up to 3km

Provide long-distance wireless network transmission up to 3km with a high-performance 8dBi Directional Antenna, making it an ideal choice for outdoor wireless network transmission.

### PTP/PTMP

Support two networking modes, PTP (point to point) and PTMP (point to multi-point), which flexibly suiting for different outdoor network solutions.

### 24V PoE Power Supply

Support 24V passive PoE power supply, which can be flexibly installed according to the application scenarios.

### Wi-Tek Cloud Management

Wi-Tek Cloud provide reliable performance, visual management, and remote access which is easy to operate and maintain.

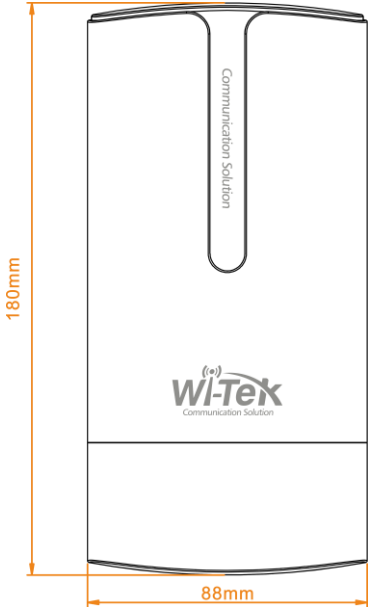
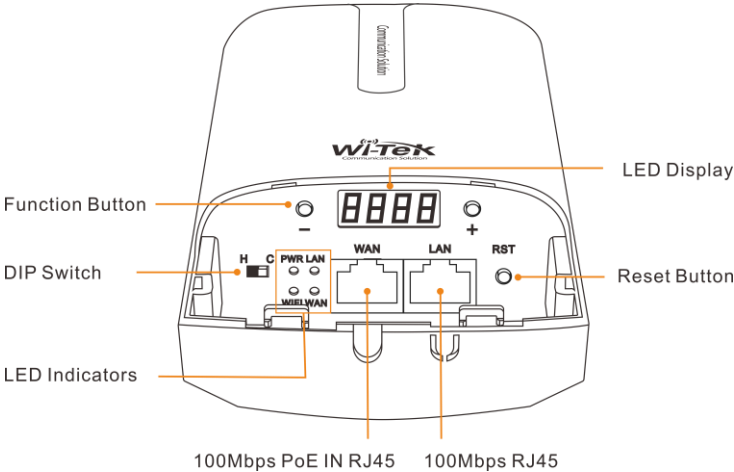
## Specifications

Products	WI-CPE511H-KIT
Hardware Version	V2
Hardware Features	
Interface	1*10/100Mbps WAN (PoE IN) RJ45 port 1*10/100Mbps LAN 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
Spatial Streams	2x2, MU-MIMO
Maximum Wireless Rate	867Mbps@5GHz
Antenna Gain	Build-in 12dBi directional antenna
Half Power Beamwidth (Typ.)	Horizontal: 33°, Vertical: 33°
Transmit Power	19dBm max. (adjustable)
Recommended Distance	3km
LED Indicator	1*PWR, Power indicator, 1*WAN port indicator, 1*LAN port indicator, 1*Wi-Fi indicator
DIP Switch	H: Base station mode, supports wireless point-to-point and point-to-multipoint long-distance transmission. C: CPE mode, a receiving point for connecting a wireless base station.
LED Display	Displays the current working mode and pairing group number.
Quick Pairing Function Button	“+” button: Press and hold the button for 3s to enable the pairing group adjustment function. When the LED display starts to blink, press the button to raise the pairing group number. “-” button: When the LED display starts to blink, press the button to reduce the pairing group number.
RST button	Long press over 5 seconds: Restore the factory default configuration.
Power Supply	PoE: 24V@0.5A (4/5+, 7/8-)
Power Consumption	<5W
Dimensions	180*88*59mm
Weight	0.26kg*2
Package Dimensions	260*190*100mm
Package Weight	1.06kg
Installation	Wall/Pole mounted
Material	Outdoor UV Stabilized Plastic
Reliability	
ESD Protection	Air discharge: ±8kV, Contact discharge: ±6kV
Lightning Protection	2kV
Operating Environment	-40°C to 70°C, 5%~95% (non-condensation)
Storage Environment	-40°C to 85°C, 5%~95% (non-condensation)
Ingress Protection	IP65

## Software Features

Products	WI-CPE511H-KIT
Hardware Version	V2
Software Features	
System Status	System information, Wireless information, Radio status, Flow Chart, Wireless Terminal Station
Operating Mode	Base Station, 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
System Tools	Wi-Fi Connection Filter, Speed Test, Ping Watchdog, Scheduled Reboot, NTP, Ping, Traceroute
Management	Local WEB management, Remote Wi-Tek Cloud management

# Appearances and Dimensions

WI-CPE511H-KIT	
Front Panel	Interface Panel
	

# Package Content

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

Item	Quantity
Wireless Transmitter	2 pcs
24V PoE Adapter	2 pcs
Ethernet Cable	2 pcs
Plastic Tie Accessory	2 pcs
Quick Installation Guide	1 pcs



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Technical Support



Cloud Management



Company Website