

Wireless Long-Range Transmitter for CCTV IP Camera

WI-CPE511H-KIT



Overview

WI-CPE511H-KIT is designed to provide a highly stable better performance and cost-effective wireless solution in outdoor wireless deployment. Via the embedded 12dBi directional antenna, it provides good diversity coverage and better noise immunity effect, thus heightening the performance of long-distance, outdoor connectivity even though the environment is flooded with many 5GHz wireless equipment. Supporting PTP and PTMP(point-to-point and point-to-multipoint), WI-CPE511H-KIT provides flexible networking modes in outdoor wireless deployment.

Professional performance and user-friendly design make WI-CPE511H-KIT an ideal choice for business and CCTV application.

Features

High Speed

Adopting an excellent 5GHz single-band chip solution, WI-CPE511H-KIT offers high transmit a rate of up to 867Mbps, which improves the efficiency of data transmission.

Long-Distance Data Transmission up to 3km

With high-performance 12 dBi Directional Antenna, WI-CPE511H-KIT long-distance wireless network transmission can be up to 3km. Besides, it provides an efficient way to pick up and maintain a stable signal for wireless network.

DIP Matching Mode

Device pairing can be made by adjusting DIP Switch Button without any configuration, which facilitates the convenience and save more time for the users.

Professional Outdoor Waterproof Design

Equipped with a durable IP65 waterproof enclosure and high-quality hardware design, WI-CPE511H-KIT can work in almost any climate, which ensures all-weather stability.

PTP/PTMP

WI-CPE511H-KIT supports two networking modes-PTP(point-to-multipoint) and PTMP(point-to-multipoint), which flexibly suits for different outdoor network solutions.

24V PoE Input Support

Simplifying installation by transmitting power and data over a single Ethernet cable, eliminating the need for additional power outlets.

Wi-Tek Cloud Management Platform

Wi-Tek Cloud's quick configuration provide reliable performance, visual management, and real-time monitoring, enhancing the efficiency of device management.



Specifications

Model	WI-CPE511H-KIT
Hardware Specifications	
Version	V1
Memory	DDR2: 64MB Flash: 8MB
Interface	2*10/100Mbps RJ45 Port 1*Reset 1*DIP Switch Button
Power Supply	24V Passive PoE Input
Power Consumption (max)	5W
Package Dimension(L x W x H)	250*201*95mm
Product dimension	167*88*54mm
Product Weight	0.25*2kg
Package Weight	1.04kg
ESD Protection	Contact discharge: $\pm 6\text{kV}$, Air discharge: $\pm 8\text{kV}$
Surge Immunity	Common mode: $\pm 4\text{kV}$, Differential mode: $\pm 2\text{kV}$
IP Level	IP65
Wireless Features	
Standards	IEEE 802.11a/n/ac
Data Rates	867Mbps
MIMO	2 x 2
Antenna	12dBi
Half Power Beamwidth (Typ.)	Horizontal: 30°, Vertical: 30°
Frequency	5.18 ~ 5.825GHz *Please follow national regulations to select the appropriate frequency.

Channel Width	20/40/80MHz
Transmit Power	Up to 20 dBm (country dependent)
Recommend Distance	3km
Software Features	
Wireless Mode	Basic Station/CPE/Repeater/WISP
Network	LAN: Static IP, Dynamic IP, PPPoE Client WAN(WISP mode): Static IP, Dynamic IP, PPPoE Client DHCP Server(Only WISP mode) VLAN: IEEE 802.1Q VLAN Passthrough
Wireless	Wireless Disable OR Enable Modify default SSID SSID Hiding Wireless Security: WPA-TKIP, WPA2-AES, WPA1/WPA2-Mixed, WPA/WPA2-Enterprise
RF Parameter	Adjustable Country Auto Channel Width Selection Automatic Frequency Selection Adjustable Transmission Power Max Associated STA (default: 128) Weak Signal Rejection Threshold (default: -95dBm) User Isolation (default: disabled) Supports Wi-Fi Multimedia (WMM) RTS/CTS Threshold (default: 2347)
Advanced	Spectrum Scheduled Reboot Ping Watchdog NTP Server
Status Monitoring	Base Info: LAN/WAN Info, Wireless Info, System Info Radio Status Real Time Flow Chart Wireless Terminal Station SSID List DHCP Client (For WISP mode) ARP Table Routing Table
Management	Quickly scan devices by discovery tools Web-based management by locally Support remote management by cloud platforms and applications
System Tool	PING, TRACERT, Speed Test
Environment	Operating Temperature: -40°C ~ 70°C (-40°F ~ 158°F)

Storage Temperature: -40°C ~ 85°C (-40°F~185°F)
Operating Humidity: 10% ~ 95%(non-condensing)
Storage Humidity: 5% ~ 95%(non-condensing)

Others

Certification

CE, FCC, RoHS, UKCA, RCM

Package Contents

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

Items	Quantity
WI-CPE511H	2 pcs
24V Passive PoE Adapters	2 pcs
Pole Mount Kits	2 pcs
Quick Installation Guide	1pcs



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Technical Support



Cloud Management



Company Website