

Datasheet

5GHz 867Mbps 2KM Long-range Outdoor Wireless Transmitter

WK-WB20-KIT



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 and reset 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 2km

Provide long-distance wireless network transmission up to 2km with a high-performance 10dBi 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 suit for different outdoor network solutions.

Multiple Power Supply Modes

Support 12V passive PoE and 12V DC power supply, which can be flexibly installed according to the application scenarios.

Wi-Tek Cloud Management

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

(Note: In the Wi-Tek Cloud 3.0 version, the EWEB channel can be created only when the wireless transmitter is linked with the other type of Wi-Tek cloud management device, such as cloud L2, L3 management switch, gateway, wireless AP, etc.)

Specifications



Model	WK-WB20-KIT
Hardware Version	V1.0
Hardware Features	
Interface	1*10/100Mbps WAN(PoE IN) RJ45 Port 1*10/100Mbps LAN RJ45 Port
Frequency Range	5.150GHz~5.850GHz(Channel 36~64, 100~144, 149~165) *Please follow national regulations to select the appropriate frequency
Compliant Standards	IEEE 802.11 a/ n/ ac
Spatial Streams	2x2, MU-MIMO
Maximum Wireless Rate	867Mbps@5GHz
Antenna Gain	Build-in 10dBi directional antenna
Half Power Beamwidth (Typ.)	Horizontal: 30°, Vertical: 30°
Transmit Power	19±2dBm max. (adjustable)
Recommended Distance	2km
LED Indicator	1*Power indicator, 1*WAN port indicator, 1*LAN port indicator, 1*Wi-Fi indicator, 4*Signal indicators
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.
RST Button	Short press: Search for another wireless transmitter on a different mode (H/C status) and pair each other.
Power Supply	PoE 12V@0.5A, DC 12V@1A

Model	WK-WB20-KIT
Power Consumption	<5W
Dimensions	180*88*58mm
Weight	?
Package Dimensions	260*190*100mm
Package Weight	?
Installation	Wall/Pole mounted
Material	Plastic
Reliability	
ESD Protection	Air discharge: ±8kV, Contact discharge: ±6kV
Lightning Protection	2kV
Operating Environment	−20°C to 55°C, 5%~95% (non−condensation)
Storage Environment	−40°C to 70°C, 5%~95% (non−condensation)
Ingress Protection	IP65

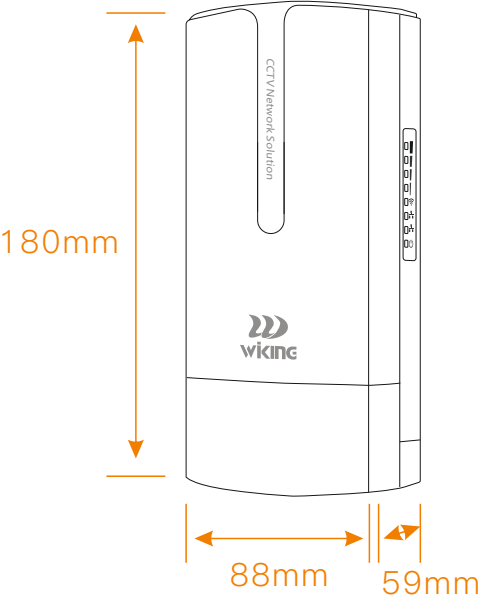
Software Features



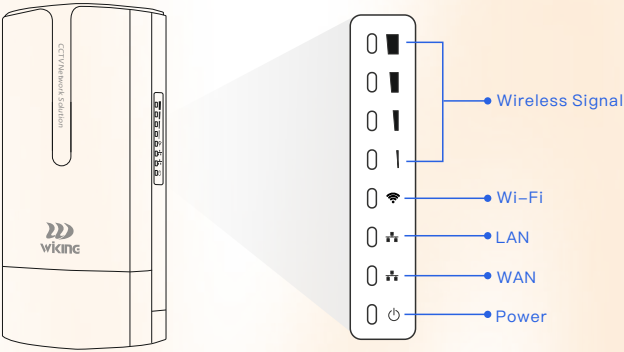
Model	WK-WB20-KIT
Hardware Version	V1.0
Software Features	
System Status	System information, Wireless information, Radio status, Flow Chart, Wireless Terminal Station
Operating Mode	Base Station, CPE Repeater, WISP Mode (Switch the pairing mode to control by web)
WAN Configuration	Dynamic IP, Static IP
Wireless Configuration	Wireless enable/disable, Hide SSID Wireless Security: OPEN, WPA-TKIP, WPA2-AES, WPA/WPA2-Mixed, WPA-Enterprise, WPA2-Enterprise
Radio 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

WK-WB20-KIT

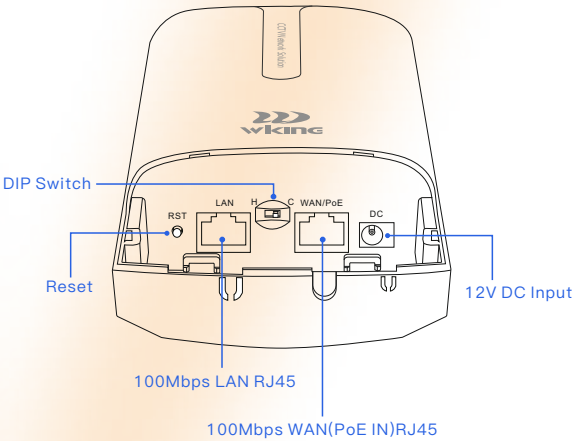
Front Panel



Side Panel



Interface Panel





Package Contents

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

Items	Quantity
Wireless Transmitter	2 pcs
12V PoE Adapter	2 pcs
Plastic Tie Accessory	2 pcs
Quick Installation Guide	1 pcs



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Technical Support



Cloud Management



Company Website