



Shenzhen Huachuangyilian Electronics Co., Ltd.

1KM Outdoor Wireless Bridge

Model: HC210



Simple Introduction

HC210 is a high-performance enterprise-class outdoor network bridge product that supports 802.11n technology in the 2.4g frequency band. Unique digital tube matching technology, no computer configuration, easily complete point to point, point to-point (within 8 points) equipment matching. 100 megabytes network interface, 2.4g 802.11n mimo technology wireless processing speed up to 300mbps. Flexible power supply mode, support 24v poe network cable power supply and 12v 1a DC local power supply , Power supply distance of 50-70 m (related to cable material). Using outdoor ip65 windproof, rain, dust-proof, sunscreen protection grade shell design, easily adapt to the outdoor environment. Built-in 5dbi bipolar plate-shaped antenna, easy and quick to install. It has high performance, high gain, high reception sensitivity, high bandwidth and other characteristics, greatly enhance the wireless transmission performance and stability, mainly suitable for indoor and outdoor short distance and other places.

Product Feature

* Supper Cost-effective Hardware Configuration

The main control chip with industrial-grade circuit design supports IEEE802.11b/g/n protocol, which provides 300Mbps wireless access speed and 100Mbps Ethernet switching processing speed. The excellent anti-high and low temperature design fully guarantees that user network data can be transmitted in real-time, long-term, stable and high performance in extreme environments to enhance user experience.

* Powerful Wireless Transmission

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The use of high power and high reception sensitivity circuit design greatly enhances the distance of wireless transmission and improves the performance and stability of wireless transmission.

* Simple and Efficient Pairing

No need for network expertise, no computer operation, just dial the code and adjust the digital tubes of the master and slave devices to the same value to complete the point-to-point or point-to-multipoint (up to 8 points) pairing work.

* Flexible Power Supply Options

The equipment not only supports the power supply method of POE remote network cable power supply, but also supports the power supply method of 12V 1A DC local connection power supply to meet the needs of various scenarios, reduce the construction cost and choose the power supply method flexibly.

* ABS waterproof, dust proof and sunscreen shell, temperature adaptive and board protective

ABS waterproof, dust proof and sunscreen shell, avoid the damage from dust, thunderstorm weather. Meantime, it adaptive to various environment, the working temperature can be normal at -40°C to 55°C. Suit for any country, with flexible and simple installation method, with wall hanging, holding rod fixed installation method, on the basis of not affecting the original design, greatly reducing the construction difficulty of the construction personnel, improve the construction efficiency.

Product Datasheet

Product Parameter	
Hardware Profiles	



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Model	WB200
Main chip	MTK7628
Dominant frequency	580MHz
Wireless technology	2.4G:300M 802.11b/g/n MIMO technology
Memory	8MB DDR RAM
Flash	1MB
Network interface	2*10/100 Mbps Adaptive network interface
Button	1*Digital Switch / reset button, Short press on the digital tube display value to add one, Press it long for 15 seconds to restore the factory settings
Guiding lights	LAN network interface status indicator, power indicator
Power	24V 0.5A POE power supply; DC 12V 1A, capacity factor $\leq 10W$
Work environment	Temperature storage : $-30^{\circ}\text{C} \sim +55^{\circ}\text{C}$ (work) , $-40^{\circ}\text{C} \sim +70^{\circ}\text{C}$ (storage) temperature (Non-condensation) : 10% ~ 90% (work) , 5% ~ 95% (storage)
Product size	140mm×75mm×34mm
Product weight	0.15kg
Antenna	5dbi directional plate antenna (Horizontal wave half Angle 90° , Vertical wave half Angle 90°)

RF Characteristics	
Frequency range	ISM Band: 2.400GHz ~ 2.4835GHz
Channel distribution	2.4G: 1、2、3、4、5、6、7、8、9、10、11、12、13
Modulation mode	OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK
Output power	802.11n: @MCS7:14±2DB, @MCS0:16±2DB 802.11g: @54M:15±2DB, @6M:17±2DB 802.11b: @11M:17±2DB, @1M:19±2DB
Receiving clarity	802.11n: -70dbm@MCS7, -88dbm@MCS0 802.11g: -72dbm@54Mbps, -88dbm@6Mbps



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	802.11b: -85dbm@11Mbps, -94dbm@1Mbps
EVM	802.11n: ≤ -28 DB 802.11g: ≤ -25 DB 802.11b: ≤ -10 DB
Frequency deviation	± 20 ppm
Software Features	
Working modes	Main AP second AP (Switch)
Main network mode	point to point, point to-point (within 8 points)
Management mode	WEBtelemanagement
Bridge configuration	Wireless mode: bridge access point / bridge client Access point: bridge ssid / encryption mode / bridge password / protocol / bandwidth / channel / power Client: bridge ssid / encryption mode / bridge password / paired-end mac address / channel / power
Network settings	Automatic acquisition / static ip
System	Password modification / reset / upgrade