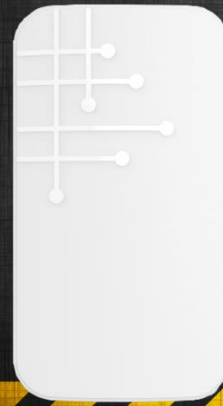**BCZW**

Outdoor CPE

5.8GHz 300Mbps 3Km

WP503

Introduction:

WP503 is an high power 5.8G outdoor CPE/WiFi Bridge with 300Mbps data rate. Comply with IEEE802.11a/n standard, Atheros chipset, it supply you a stable and freely wifi networking. What's more, with 14dBi high gain antenna, 300mW high power output power, the wifi distance more than 3000 meters.

WP503 with wonderful RF performance, receive sensitivity can be -92dBm, then comply with 5G standard, improved hardware wifi interference, it is best choice for video and security industrial.

Meantime, it support Power over Ethernet, support passive PoE, easy in setup even no power socket nearby. With LED light show signal strength, easy to find a suitable place for outdoor CPE, save much human work and cost. With water proof case, it is best choice for outdoor wifi projects.

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

WP503 with 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 -30℃ to 65℃. Suit for any country.

300Mbps high speed, Atheros industrial chipset, wider application

WP503 comply with IEEE 802.11a/n standard, 300Mbps high speed, with Atheros industrial solution, it is a wifi bridge with low power consumption, strong security. With PTP, PTMP, bridge operation mode, widely be used in voice, video, data transmission in long range wireless monitor industrial.

300mW High Power, 14dBi High Gain Antenna, Long Range wifi Device in market.

WP503 with external power amplifier, 300mW true power, 14dBi high gain antenna, the wifi range is more than 3000 meter, it is the device with very stable performance in long range, but competitive in price.

5.8GHz frequency, faster, lower latency, higher stability

WP503 with frequency of 5.180~5.825GHz, with wireless backbone channel of Europe, Japan, China, it avoid the same frequency interference problem, full meet with data transmission in fast speed, low delay, high stability requirement in wireless monitor.

Support Power over Ethernet, cost save

The device has integrated Power over Ethernet (PoE) for easy installation and lower cost, with 24V PoE, it can be installed in areas where power outlets are not readily available, eliminating the mess of altering existing network infrastructure.

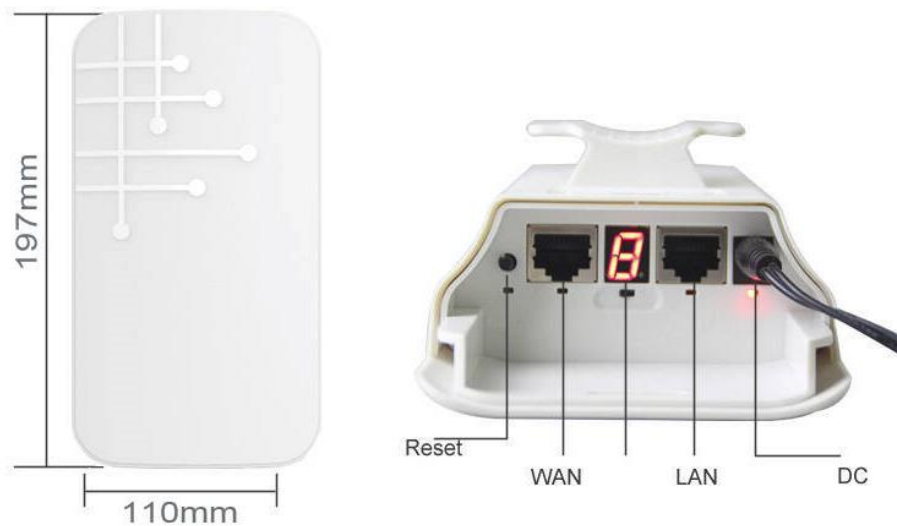**Easy configure, multi function, remote control**

WP503 with humanized configuration steps, simple to complete the entire system configuration, supply more efficient service for your networking.

WP503 support IP bandwidth control, DDNS, firewall, traffic statistics, watchdog, restart in a limited time, together with remote control in restart device and restore to default.
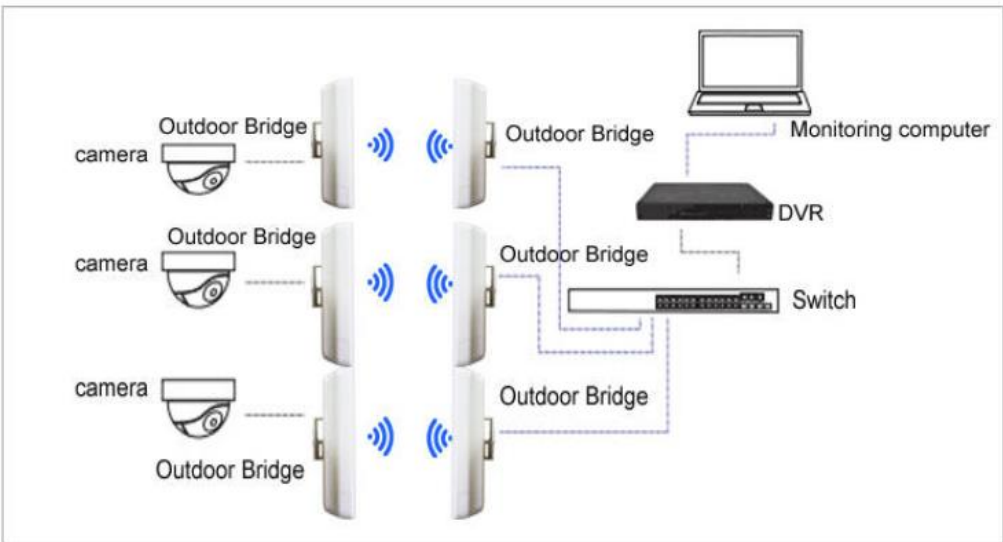
WP503

Outdoor CPE 5.8GHz 300Mbps 3Km

Technical Datasheet

Model	WP503
Hardware Specifications	
Interface	WLAN/LAN PoE 10/100Mbps RJ45
Button	1*Reset Button， Long press to reset, short press to adjust digital display number
Power Consumption	<12W
Power Supply	POE：24V 0.5A，DC：12V 1A
working environment	Temperature：-40℃～+75℃（operating），-40℃ ～+80℃（storage）Humidity（no-condensing）：5％～90％（operating），5％～95％（storage）
Size	196*110*40(mm)
Weight	0.3KG
Radio frequency Feature	
Frequency	5.180 - 5.825 GHz
Modulation	OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK
Data Rate	11n: up to 300Mbps(dynamic)11a: up to 54Mbps(dynamic)
Protocol	CSMA/CA、CSMA/CD、TCP/IP、ICMP、NAT、DHCP , Wired static , Wifi Client , UDP, DDNS、
Standard	IEEE802.3, IEEE 802.11n, IEEE 802.11a
Security	64/128bit WEP WPA WPA2 WPS
RF Output Power	802.11n:MCS7 19±2 DB, MCS0 22±2DB.802.11a:54M 20±2DB,6M 23±2DB.
Receive Sensitivity	802.11n: -68dbm@MCS7; -88dbm@MCS7;802.11a: -72dbm@54Mbps; -92dbm@6Mbps;
Antenna	14dBi MIMO Panel antenna
Data of 14dBi Panel Antenna	
Frequency range（MHz）	5150～5850
Bandwidth(MHz)	700
Polarization	Vertical and Horizontal
Gain（dBi）	2×14
Half-power beam width（°）	Vertical
Input Impedance（Ω）	50
VSWR	≤1.8
Software Feature	
Working Mode	Router, Universal Repeater, WISP, AP and Repeater
Users	64
Network	Controller address /DHCP/ static IP
System	Restore factory/system restart

Structure Diagrams

Applications

Ordering Information	
WP503	Outdoor CPE 5.8GHz 300Mbps 3Km