
5.8Ghz 300Mbps Wireless AP /CPE /Bridge for 3km

Model:7OW505R

**Overview:**

7OW505R is a high cost effective outdoor CPE/Wi-Fi Bridge, with Atheros AR9344 chipset, 5.8Ghz running frequency band, adopting MIMO and OFDM modulation technology, provides a wireless data transmission rate of up to 300 Mbps. The device adopts low-power, low-temperature chip design and built-in high-gain directional antenna, which provides stable and reliable wireless coverage and wireless bridging. Be equipped with signal LED to indicate strength grade, help user select best place to install.

The user-friendly column design, nice and neat, supports 24V PoE power supply and DC12V power, flexibly choose CPE or AP working mode to meet different environmental application requirements.

When use as a wireless bridge, use in pairs. PtMP or PtP pairing, suitable for covering **3km** range with 14dbi high gain antennas, providing wireless network bridge relay function; Or combined with its directional wireless antenna characteristics, it can be widely installed in outdoor corridors, scenic spots, pedestrian streets And the park, factory coverage and other places, providing excellent wireless Internet experience.

7OW505R is much helpful in saving labor cost and time with its AC controller/Cloud Management system, easy for people to do central management and authentication ect.

Features:

High-performance 5.8G 300Mbps wireless speed, with coverage up to 3km, the signal is strong and stable, Fat and thin AP integrated design, flexible choose gateway, AP, repeater, WDS operation mode.

Smart select best wireless channel, avoid Wi-Fi Interference, guarantee the stable wireless connection.

Realize the effective balance of the number of users, traffic and wireless signals between devices.

Support Power over Ethernet, labor cost save. Ideal solution for CCTV surveillance.

14dBi high gain directional antenna, long range up to 3000m.

ABS waterproof, dustproof and sunscreen shell, temperature adaptive and board protective.

Hardware Specification:

Chipset	QCA9344		
Supporting Standards	IEEE802.3u MDI / MDIX 10/100 Fast Ethernet IEEE802.11n wireless LAN Standard IEEE 802.11a wireless LAN Standard		
DDR	64MB DDR2		
Flash	16MB		
Input	12-24V passive PoE (WAN port)/DC 12V		
Antenna	14dBi Directional Antenna , 60 degree sector		
Wireless	11n: up to 300Mbps 11a: up to 54Mbps		
LAN Port	1*10/100Mbps Ethernet Port for LAN, Support 24V PoE		
WAN Port	1*10/100Mbps Ethernet Port for WAN,Support 24V PoE		
DC Power Injector	1*DC injector(12V 0.5A)		
Button	Reset button restore to factory settings; WDS button		
LED Indicator	Power; LAN; WAN; WIFI; Signal Strength		
Transmission Rate(2.4g)	11a:54Mbps 11n:6.5M, 13M, 13.5M,19.5M, 26M,27M, 39M, 40.5M,52M, 54M,58.5M, 65M,81M,108M,121.5M,135M,150Mbps,300Mbps		
Transfer Method	DSSS		
RF Power	11a: @54M:17±2DB, @6M:20±2DB 11n HT20: @MCS7:16±2DB, @MCS0:19±2DB 11n HT40: @MCS7:15±2DB, @MCS0:18±2DB		
Modulation	O OFDM = BPSK,QPSK,16-QAM,64-QAM;DSSS = DBPSK,DQPSK,CCK		
Frequency Range	5.150GHz-5.825GHz		
Power Consumption	PoE 24V/0.5A <5W		
Output Power	500mW		
Receiving Sensitivity (2.4g)	IEEE 802.11b 1Mbps ≡ -95dBm 11Mbps ≡ -89dBm	IEEE 802.11g 6Mbps ≡ -92dBm 54Mbps ≡ -73dBm	IEEE 802.11n HT 20 MCS 0 ≡ -86dBm MCS 7 ≡ -68dBm HT 40 MCS 0 ≡ -83dBm MCS 7 ≡ -65dBm
EVM	11n: ≤-28 DB 11a: ≤-25 DB		
Operating temperature	-20~+55°C		

Operating humidity	10%~90% RH
Storage temperature	-40~+75°C
Storage humidity	10%~90% RH

Software Specification:

Supporting Standards	IEEE 802.11a/n; IEEE 802.3
Wireless working mode	Repeater, AP
LAN Settings	Support DHCP to get IP / manually setup IP
Wireless SSID	Support Multiple 4 SSID、 Hide/Isolate/ Broadcasting SSID
WPA Encryption	WPA、 WPA2、 WPA-PSK、 WPA2-PSK、 WPA/WPA2-PSK
DHCP Server	Support
Wi-Fi channel Analysis	Support
Hide SSID	Support
AP Isolation	Support
ACL Visit Control	Support
Wireless MAC Filter	Support
Port Mapping	Support
User List	Support
Local Upgrading	Support
System LOG	Support
System monitoring	Support
WEB UI Management	Support Web UI restart, restore factory settings
Other Management	Support Remote Management, WLAN Controller, Cloud Management
Protocols	IPv4
Connected users	Recommend 30, up to 60
Size	20.6X8.4X4.5cm
Weight	241g
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista™ or Windows 7, Windows 8, MAC OS, NetWare, UNIX or Linux
Package Including	7OW505R 300Mbps Outdoor CPE 1*Ethernet Cable 1*24V/0.5A PoE Adapter QIG flyer Setting Accessory