

WAP100 Series Outdoor Wireless AP Datasheet



>>| Product Introduction

PRODUCT BRIEF

Telco grade 300Mbps transport radio

The WAP100 is a carrier class broadband radio supports data rate up to 300 Mbps by using the license free frequency bands. System caters for large bandwidth back haul transportation. Surge protected PoE and harden casing design enables the system for long distance transmission and working under extreme environment.

State-of-the-art technology

By using the global innovative technology leader, the Atheros chip sets that enable advanced OFDM modulation and ensure the system capable for the LOS and NLOS, long haul point-to-point applications. Spaces diversify technology with spatial multiplexing increases throughput without using additional spectral bandwidth.

Advance feature with super performance

System design with many advance features like CSW (Configurable Channel Spectrum Width) and MCS (Modulation Coding Scheme) that enable system can work under interfering environment. TPC (Transmit Power Control) and DFS (Dynamic Frequency Selection) are also supported to provide additional flexibility to the customer.

High reliability and sophisticate features

To enhance the system security and privacy, the WAP100 is protected by different wireless

security features such as WPA (Wi-Fi Protected Access), WPA2 (WPA with advance encryption), 64-bit / 128-bit WEP (Wired Equivalent Privacy) and IEEE 802.1X authentication. It also provides sophisticated IP features, such as STP, NAT, DDNS, DHCP server, SPI firewall, packet and URL filtering. The system management control can be achieved locally and remotely via the user friendly web page, SNMP or telnet. The WAP100 is the most cost-effective, high speed and high reliable solution.

HIGHLIGHTS

- High-capacity and Spectrum Efficiency, up to 300Mbps net aggregate throughput
- 5.1/5.8GHz Bridge high capacity Point to Point or Point to Multi-point Long Range- Up to 20 miles (0 to 32Km) Line of Sight Range
- 100Mbps on 10km with 27dbi built-in antenna
- Cost effective and high performance solution for LOS and NLOS, quick return on investment
- Atheros chip sets, surged protected PoE and harden waterproof casing Design
- Plug and Play – No complicated setup required
- Outdoor Cat5e shielded Cables and Universal Mount for Wall or Pole
- Security and High Reliability, IP security supports SPI firewall, packet and URL filtering
- Remote Management and Update Capable

>>| Application

- Long Range Backhaul
- Links Between Cellular Towers
- High bandwidth Last Mile Access
- Extend your Wireless or Wired LAN
- Video Surveillance Backhaul
- Leased Line Redundancy

>>| BENEFIT

- Rapid Deployment
- Flexible Deployment
- Reduced Cost
- High Performance and Reliability
- Quick Return on Investment
- Remote Video and Media Servers

>>| Specification

Wireless Radio Frequency (RF)	
Chip set	Atheros AR9220
Frequency Range	5.180 ~ 5.825 GHz
Data Rate	54 ~ 300 Mbps
Transmitter Output Power	16 ~ 26 dBm
Receiver Sensitivity	- 90 dBm @ 6 Mbps, - 70 dBm @ 300 Mbps
Antenna Gain (Built-in)	26 dBi / 19 dBi
Modulation	OFDM: 64QAM, 16QAM, QPSK, BPSK DSSS: DBPSK, DQPSK, CCK
802.11	802.11a/c, 300Mbps maximum
Wireless Security	64-bit / 128-bit WEP WPA-EAP / WPA-PSK / WPA2-EAP / WPA2-PSK IEEE 802.1X ˆC TLS, TTLS, PEAP, EAP-SIM
Advanced Features	
Wireless	Long Distance Parameters Setup Wireless Pseudo VLAN CSW (Configurable RF Channel Spectrum Width) MCS (Modulation Coding Scheme) TPC (Transmit Power Control)
IP Services	STP (Spanning Tree Protocol) SAT (Static Address Translation) DNS Redirection, DDNS, NAT, DHCP Server SPI Firewall, Packet Filtering, URL Filtering
Management	HTTP Web, SNMP (RFC 1157 / RFC 1213) Telnet / SSH (Secure Shell)
Certificate	
Safety / EMC	FCC Part 15

	CE EN 60950
Power Supply	
Standard Input	- 48VDC / 100~240VAC / 802.3af PoE
Consumption	15 Watts
Operation Environment	
Working Temperature Range	-35 ~ +70 oC
Relative Humidity	5 ~ 95 % (non-condensing)
Storage Temperature Range	-40 ~ +80 centigrade degrees
Mechanical	
Dimension	370 x 370 x 35 mm (WAP100a) 220 x 220 x 18 mm (WAP100b)
Weight	5.5 Kg (WAP100a) 2.5Kg (WAP100b)
Others	
Warranty	1 Year
Package Contents	For one pair of WAP 1. Two Outdoor Bridge Units 2. Two Mounting brackets (include: 2 Wall/ Pole) 3. Two PoE Injector 4. Two Power Cables 5. Cable Tie 6. Two RJ45 Waterproof Connector System 7. Waterproof Tape 8. CD-ROM
Model	
WAP100a	Wireless AP, 26dBi
WAP100b	Wireless AP, 19dBi

>>| More pictures for WAP100 Series Wireless AP





>>| Package items



>>| Typical Diagram for WAP100 Series Wireless AP

