

## Indoor Wireless Access Point WAP-100

**Industrial Grade 802.11 b/g/n 300Mbps 100mW Access Point with Dual-Detachable Antennas, IEEE 802.3af PoE Compliant, IP50 Certificated**



**WAP-100**

Aspiring to provide the best performance/price ratio for both SMB and industrial applications, WAP-100 is uniquely designed for Wall Mount with metal case and IP50 rating for a fast, robust, secure and business class access point perfect for installation in factories, warehouses, hotels marinas, hospitals, large homes, hotspot and more.

WAP-100 is compliant to the latest wireless standards that are required in highly secured enterprise networking environments. Its Wireless Distribution System (WDS) feature allows for flexible extension of wireless coverage. It can be power via three alternative methods from either the Single LAN port for Power over Ethernet (PoE), DC jack providing the ability to back up each other with failover redundancy function, giving WAP-100 reliable connectivity in mission critical situations.

WAP-100 is easy-to-use and install with web-based administrative interface making configuration and client management simple and easy. In addition, management interfaces such as CLI and SNMP are also supported by WAP-100

WAP-100 built-in software interface allows for communicating with other types of network management servers. WAP-100 can further provide enhanced values in a well managed WLAN solution by our backend controlling gateway.

### Features:

- 2.4GHz , IEEE 802.11 b/g/n
- Data Rate: 300Mbps for 2 Transmit ;300Mbps 2 Receiving
- Operation Modes: Access Point, WDS (Repeater, Bridge)
- Security with 802.1X,WPA, and AES
- Dual IEEE 802.3af (PoE) compliant with Link Failover
- 8 Multiple B-SSID capability
- Business-class security and central management
- Metal case with IP50 compliance for industrial usage
- Support Slot Time , ACK/CTS Timeout, RSSI threshold, TX burst, RTS and fragmentation control, and Beacon interval that can be adjustable to best to the deployment environment
- IAPP to facilitate faster roaming for the stations among different APs nearby
- 802.11n protection to let the transmission rate of associated 802.11g and 802.11b not to be affected with surrounding existence of 802.11b stations
- Wireless site survey for scanning the surrounding access points for connection
- QoS: Packet classification via DSCP, Traffic Analysis and Statistics, Diff/TOS, IEEE 802.1Q Tag VLAN priority control, IEEE 802.11e WMM with automatic mapping of WMM multiple priorities to 802.1p and IP DSCP, U-APSD, IGMP Snooping for efficient multicast delivery, Upload and Download Traffic Management with Scheduled Policies
- Data encryption: WEP(64/128/152-bits), WPA/WPA2 with TKIP or AES-CCMP
- User Authentication: WEP, IEEE802.1X,WPA-PSK, WPA-Enterprise, MAC ACL
- Setting for TKIP/CCMP/AES key's refreshing period
- Support IEEE802.11 mixed mode, open and shared key authentication
- VLAN tag support
- Hidden ESSID: broadcast SSID option can be turn off to prevent SSID broadcast to the public
- Station Isolation setting: when enabled, all stations associated with this AP can not communicate with each other
- Support data encryption over WDS link
- Web-Based management interface
- Remote configuration and management
- Remote firmware upgradeable
- Software one-button-click to reset back to factory defaults
- Utilities for system configuration backup and restoration
- SNMP MIBII support (v2c/v3)
- NTP time synchronization
- DHCP client
- Syslog client
- Support Event log
- Support statistics on total transmission encountered and transmitting error occurred

## Industrial Grade 802.11 b/g/n 300Mbps 100mW Access Point WAP-100

<b>Model No.</b>	WAP-100
<b>Standard</b>	IEEE 802.11b/g (Wireless LAN), IEEE 802.3 (CSMA/CD Ethernet), MIMO 802.11n
<b>Wireless Radio Specification</b>	<ul style="list-style-type: none"> <li>• WiFi standard: IEEE 802.11b/g/n in 2.4GHz frequency band</li> <li>• Modulation: IEEE802.11b : DSSS (DBPK,DQPSK,CCK); IEEE802.11g : OFDM(64-QAM,16-QAM,QPSK,BPSK); IEEE802.11n : BPSK,QPSK,QPSK,16-QAM,64-QAM</li> <li>• Wireless Interface: 1 x 802.11 b/g/n (11/54/300 Mbps), Sensitivity: -92dBm; RF output power: 100mW EIRP. Transmit Power Control: 7 levels</li> <li>• Operating Mode: AP Mode, WDS Mode (Bridge /Repeater)</li> <li>• Support Slot Time, ACK/CTS Timeout, RSSI threshold, TX burst, RTS and fragmentation control</li> <li>• Beacon interval: adjustable to best adapt to the deployment environment</li> <li>• IAPP: to facilitate faster roaming for the stations among different APs nearby</li> <li>• 802.11n protection: to let the transmission rate of associated 802.11g and 802.11b not to be affected with surrounding existence of 802.11b stations</li> <li>• Wireless site survey: for scanning the surrounding access points for connection</li> <li>• VLAN tag support</li> <li>• 2 x 5dBi (US) / 2dBi (EU) detachable (SMA Connector) field replaceable Antenna</li> <li>• Number of multiple SSIDs: 8. Number of WDS links: 4; Number of associated clients per AP: 32</li> <li>• Channels 802.11b/g : 11 for FCC,14 for Japan,13 for Europe, 2 for Spain, 4 for France</li> </ul>
<b>Wireless &amp; Wired Security Functions</b>	<ul style="list-style-type: none"> <li>• WEP (64/128/152 bits), WPA/WPA2-PSK, IEEE 802.1X, and WAP-TKIP, WPA-PSK –TKIP, WPA-AES, WPS-PSK-AES, WAP2/802.11i :WPA2-AES, WAP2-PSK-AES, WAP2-TKIP, WPA-PSK-TKIP Cipher auto negotiation</li> <li>• VPN Pass-Through (PPTP)</li> <li>• DoS attack protection. Setting for “ Deny Any “ connection request</li> <li>• MAC Access Control List; Configurable User Black List</li> <li>• Allows MAC address and user identity binding for local user authentication</li> <li>• Layer 2 User Isolation, AP Isolation</li> <li>• Blocks client to client discovery within a specified VLAN</li> <li>• Setting for TKIP/CCMP/AES key's refreshing periodically</li> <li>• Hidden ESSID support</li> <li>• MAC Address Filtering (MAC ACL)</li> <li>• Secure Socket Layer (SSL ) and TLS : RC4 128-bit and RSA1024-bit and 2048-bit</li> </ul>
<b>QOS</b>	• DiffServ /TOS, IEEE 802.1p /COS, IEEE 802.1Q Tag VLAN priority Control, IEEE 801.11e WMM
<b>Management</b>	<ul style="list-style-type: none"> <li>• Web-based administration</li> <li>• Firmware upgrade by Web GUI, Backup and restore the system configuration</li> <li>• Remote Link Test –Display connect statistics</li> <li>• SNMP Traps to a list of IP number, Support SNMP MIBII v2c/v3</li> <li>• Support DHCP Client, Syslog Client, Event log</li> <li>• Command Line Interface (CLI)</li> <li>• NTP Time synchronization</li> <li>• Support Statistics on total transmission encountered and transmitting error occurred</li> </ul>
<b>Hardware Specifications</b>	<ul style="list-style-type: none"> <li>• Base Platform: Atheros AR7240 + AR9283. Clock Speed: 400MHz. SDRAM: 32 MB; Flash: 8 MB</li> <li>• Reset Switch Built-in: Push-button momentary contact switch</li> <li>• Metal case compliant with IP50 Standard</li> <li>• WAN Port: 1 x 10/100 Base-T PoE complaint with IEEE 802.3af</li> <li>• LAN Port: 2 x 10/100 Base-T, Console Port: 1 x DB9. USB Port : 1</li> <li>• LED Indicators: 1 x Power, 1 x WAN, 2 x LAN, 1 x WLAN, 1 x WES (WDS Easy Setup) Button</li> </ul>
<b>Physical and Power</b>	<ul style="list-style-type: none"> <li>• AC Input Power: 100~240 VAC, 50~60 Hz. DC Output: 12V, 1.5A input</li> <li>• Support 802.3af Compliant Power over Ethernet (48V/0.3 A)</li> <li>• Form Factor: desktop, wall mountable</li> <li>• Dimensions (W x D x H): 205 mm x 125 mm x35 mm; Weight: 0.6KG</li> </ul>
<b>Environment</b>	<ul style="list-style-type: none"> <li>• Temperature: Operating -20 ~ 50 °C; Storage -20~65 °C</li> <li>• Humidity: Operation 10%~80; Storage: 5%~90 (Non-condensing)</li> </ul>
<b>Certifications</b>	• CE, FCC, IP50, RoHS Compliant