

Introduction

IAP-W510/W512 are reliable IP-67 outdoor IEEE 802.11 a/n WLAN Access Point with 1 waterproofed Ethernet port. It can be configured to operate in AP/Bridge/Repeater/AP-Client/Turbo Client mode. In combination with its IP-67 design and the superb management functionality, IAP-W510/W512 is specifically designed for the toughest industrial environments and provides a waterproof, dust-tight connection and two N-type connectors (IAP-W512 only), that can install any N-type antennas to extend communication distance. In addition, IAP-W510/W512 provide high power output of 500mw and high throughput up to 80Mbps to satisfy far distance connection. You are able to configure IAP-W510/W512 by WEB interface Via LAN port or WLAN interface. IAP-W510/W512 can be easily adopted in almost all kinds of applications and provides the most rugged solutions for managing your network in outdoor. Therefore, IAP-W510/W512 are the best outdoor communication solutions for wireless applications

Features

- > High Speed Air Connectivity: WLAN interface support up to 300Mbps link speed
- > Highly Security Capability: WEP/WPA/WPA-PSK(TKIP/AES)/WPA2/WPA2-PSK(TKIP/AES)/802.1X Authentication supported
- > High throughput > 80Mbps
- > High power output 500mw
- > Far Distance Air Connectivity up to 10KM
- > Support X-Roaming < 100ms
- > Support wireless load balance
- > Support external N-type antenna install (IAP-W512 Only)
- > Support AP/Bridge/Repeater/AP-Client/Turbo Client Mode
- > Wireless connecting status monitoring
- > HTTPs protocol supported for secured management
- > IP table to prevent access from unauthorized IP address
- > Event Warning by Syslog, Email, SNMP Trap
- > Wide-range Power Inputs : 12-68VDC
- > Rigid IP-67 housing design
- > Pole and Wall-mount enabled



ORing Industrial Networking Corp.

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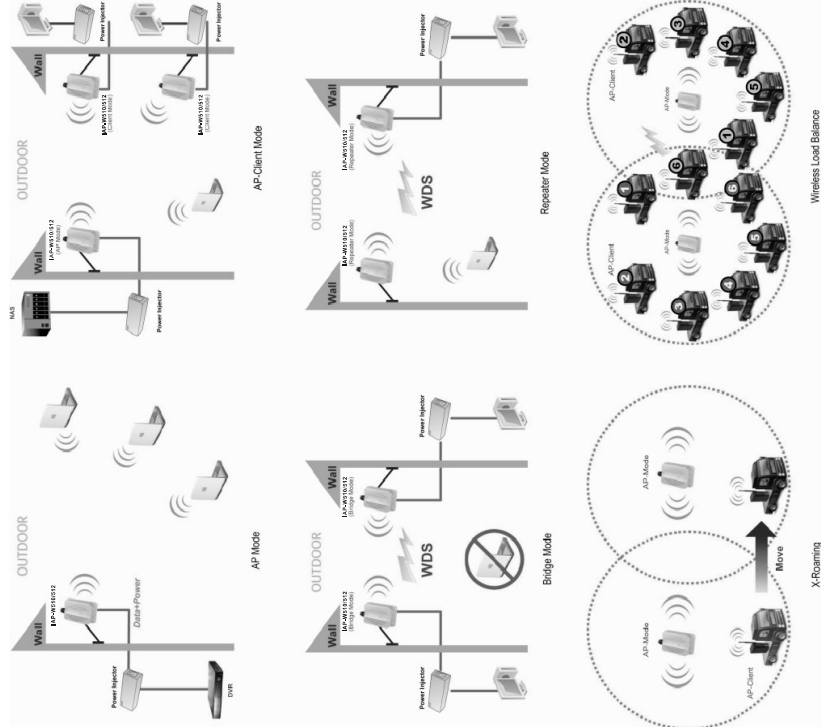
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Applications

In practical operation of wireless access point, Windows utility (AP-Tool) is supported. This utility is very helpful for you to search and configure IP of access point on the industrial wireless network. In addition, the wireless access point support various kinds of operation modes include AP/Bridge/Repeater/AP-Client/Turbo Client mode. IAP-W510/W512 also can connect to each other up to 10,000 meters. You can build up the wireless network easily.

Various kinds of operation modes



IAP-W510/W512

Specifications

| ORing WLAN Access Point Model | IAP-W510 | IAP-W512 |
|---------------------------------|---|----------|
| Physical Ports | 1, 10/100 Base-T(X) Ports in RJ45 Auto MDI/MDIX | |
| WLAN Interface | 1, | |
| Operating Mode | AP/Bridge/Repeater/AP-Client/Turbo Client | |
| Antenna Connector | Built-in 15dB, patch antenna | |
| Radio Frequency Type | 2 x External N-type antenna connector | |
| Modulation | OFDM | |
| Frequency Band | IEEE802.11a: OFDM with BPSK, QPSK, QAM, 64QAM IEEE802.11n: BPSK, QPSK, 16-QAM, 64-QAM | |
| Transmission Rate | Amexy / FCC: 5.15 to 5.825 GHz (13 channels) Europe / ETSI: 5.15 to 5.725 GHz (13 channels) | |
| Transmit Power | IEEE802.11n: 1.5W, 500mW Max IEEE802.11a: 0.1W, 500mW Max | |
| Receiver Sensitivity | -82dBm @ 54Mbps, PER < 10%; -78dBm @ MCS 15 (1n, 20MHz), PER < 10%; -73dBm @ MCS 15 (LD, 20MHz), PER < 10%. | |
| Encryption Security | WEP (64-bit, 128-bit key supported) WPA/WPA2 (TKIP/AES) (802.1X Authentication supported) 802.1X Authentication supported TKIP encryption | |
| Wireless Security | SSID broadcast: disable | |
| Protocol Support | ARP, BOOTP, DHCP, DNS, HTTP, IP, ICMP, SMTP, TCP, UDP, RADIUS, SNMP, STP, (IEEE 802.1D). | |
| LED Indicators | Power / Ready: 1 x LED Green On: Power is on and functioning normally. | |
| Power | 1 x LED, Green On: Port Link Green Blinking: Transmitting data | |
| Physical Characteristics | 1 x LED, Green for WLAN Link/Act | |
| Endure | IP-67 | |
| Weight (G) | 680 g | |
| Dimension (W x D x H) | 162(W) x 102(D) x 38(H) mm (6.38 x 4.02 x 2.81inch), 152(W) x 102(D) x 48(H) mm (6.38 x 4.02 x 1.89 inch) | |
| Storage Temperature | -30 to 85°C (-22 to 185°F) | |
| Operating Temperature | -30 to 70°C (-22 to 158°F) | |
| Regulatory approvals | FCC Part 15, CEPSR (EN55022), class A EN61000-4-2 (ESD), EN61000-4-3 (ES), EN61000-4-4 (EFT), EN61000-4-5 (Surge), EN61000-4-6 (CS), EN61000-4-8, EN61000-4-1 | |
| Shock | IEC60068-2-27 | |
| Free Fall | IEC60068-2-52 | |
| Vibration | IEC60068-2-6 | |
| Safety | EN60950-1 | |
| Warranty | 3 years | |