

Model : WCB1010H2PZ

**Outdoor 2.4GHz Compact AP/WISP CPE /Bridge
(Built-in 10dBi antenna)**



Lanready outdoor WCB1010H2PZ is the point of connection to Wireless Outdoor Network for service provider deploying last mile services to business or residential broadband subscribers.. Network administrators can create multiple subscriber service tier using per-subscriber rate limiting features, and manage centrally. Lanready outdoor WISPCPE/AP utilizes a 200mW high power with a Built-in 2.4GHz 10dBi patch antennas . WCB1010H2PZ may connect to the WiFi mesh or WDS infrastructure and provides the subscriber with an Ethernet connection for a local access .

Lanready outdoor high power WISP CPE/AP supports two operational modes, the AP mode and the WISP CPE mode, respectively with built-in remote management features simplify the deployment and reduce cost for continued maintenance of the outdoor WISP CPE/AP .

Product Benefits :

- Weather-Proof (IP 67/68 Approved)
- 200mW at 2.4Ghz Output Power
- Built-in 2.4GHz 10dBi Sector Antenna (H110 , E60)
- Dual Function Support
 - Wireless Access Point
 - Customer Premised Equipment connect to Wireless Outdoor Network
- Bandwidth management to manage the uplink and downlink throughput
- Auto-recovery while detecting fault in the system

Feature



System Administration

- Web-based management interface
- Remote configuration and management
- Remote diagnostics
- Remote firmware maintenance
- Auto-recovery while detecting fault in the system
- MIB II support

AP Mode

- IEEE 802.11b/g
- Suppressible ESSID broadcast capability
- Support data encryption: WEP (64/128-bit), WPA/WPA2 with TKIP or AES-CCMP
- Support authentication: WPA-PSK, WPA2-PSK, IEEE 802.1x
- Provide MAC address access control list

CPE Mode

- IEEE 802.11b/g client mode to connect to AP
- Support WPA client to secure connection (authentication and encryption) to source AP
- Bandwidth management to manage the uplink and downlink throughput
- Built-in NAT to support IP sharing on the LAN side for multiple users to get access to the Internet
- Built-in DHCP server
- Support for control for suspending and resuming service
- Built-in firewall to protect the attack from the Internet

Software Specification

Software Specification	
Topology	WDS Point to Point Pont to Multi-Point
Wireless	Bridge Repeater Site Survey Prevention
Networking (CPE Mode)	DHCP Server/ Client NAT/NATPT, Virtual Server PPP/PPPoE Support DoS Protection
Security	WEP,WPA(TKIP/AES) , WPA2(TKIP/AES) Mac Filter Access Control IP-based Access Control
QoS	IEEE802.11e WMM



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Hardware Specification

Base Platform	
Processor	RL8186
Wireless Radio	802.11bg , 2.4GHz
Standards Conformance	IEEE 802.3 / IEEE 802.3u
Network Ports	<ul style="list-style-type: none"> - 1 * 10/100Mbps Ethernet ports with weatherproof connectors - IEEE 802.3, 802.3u compliant - CSMA/CD 10/100 auto sense - Power over Ethernet
Enclosure	
Weather Rating	Die Cast aluminum IP67/IP68 (NEMA-4X) Weathertight
Antenna	Built in 10 dBi , 2.4GHz (H110, E60) Sector Antenna
Ethernet Connector	1 * weatherproof Ethernet Connectors IEEE802.3af compatible PoE (PSE) , 48W max. (48V/0.4A)
LED Indication	Power * 1 , Ethernet *1 , Wireless*1

Wireless Specification

RF Module	RL8186
Wireless Radio	802.11bg , 2.4GHz
Network Standards Conformance	IEEE 802.11b/g/h compliant
Data Transfer Rate	IEEE802.11b: 1/2/5/5/11Mbps(auto sensing) IEEE802.11g:6/9/12/18/24/36/48/54 Mbps (auto sensing)
Frequency Range	IEEE802.11b/g 2.412 – 2.462GHz(USA) 2.412 -2.484GHz(Japan) 2.412 – 2.472GHz (Europe ETSI) 2.457– 2.462GHz (Spain) 2.457- 2.472GHz (France)
Media Access Protocol	CSMA/CA with ACK
Modulation Method	IEEE 802.11b: DSSS (DBPK,DQPSK,CCK) IEEE 802.11g : OFDM(64-QAM,16-QAM,QPSK,BPSK)
Operating Channels	802.11b/g : 11 for FCC, 14for Japan13 for Europe, 2 for Spain, 4 for France
Transmit Power(TX)	200mW
Frequency Response Flatness	±1dB over operating range

Environmental & Mechanical Characteristics

Operating Temperature	-30 °C ~ 60 °C
Storage Temperature	-30 °C ~ 85 °C
Operating Humidity	100% Non-Condensing
Storage Humidity	100% Non-Condensing
Power Consumption	7 W
Input Power	12-68 VDC
Connector	RJ 45 (Power Over Ethernet)
Power Supply	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1.5A input



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Unit Dimensions	162(L)x102(W)x58(H) mm
Unit Weight	660g
Form Factor	Wall Mount and Pole Mount Ability, Die-Cast aluminum Enclosure with IP67/68 Rating
Certifications	FCC , CE

Standard Packing	
Outdoor Bridge Unit	1
Ethernet Power Injector	1 (48V/0.4A)
Power Cable	1
CD User Manual	1
Wall/Pole Mounting Bracket	1