

**Model : WCB1000H2PZ**

**Outdoor 2.4GHz Compact AP/WISP CPE /Bridge**



Lanready outdoor WCB1000H2PZ 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 CPE/AP utilizes a 200mW high power with a N-Type Female connector connecting to flexible external antennas . WCB1000H2PZ 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 CPE/AP supports two operational modes, the AP mode and the CPE mode, respectively with built-in remote management features simplify the deployment and reduce cost for continued maintenance of the outdoor CPE/AP .

### **Product Benefits :**

- Weather-Proof (IP 67/68 Approved)
- 200mW at 2.4Ghz Output Power
- 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
- Remote Management ( Companion with M5000 /M3000 Access Service Control)

### **Feature**



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



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**WCB1000H2PZ Hardware Specification**

<b>Base Platform</b>	
<b>Processor</b>	RL8186
<b>Wireless Radio</b>	802.11bg , 2.4GHz
<b>Standards Conformance</b>	IEEE 802.3 / IEEE 802.3u
<b>Network Ports</b>	<ul style="list-style-type: none"> <li>- 1 * 10/100Mbps Ethernet ports with weatherproof connectors (M13)</li> <li>- IEEE 802.3, 802.3u compliant</li> <li>- CSMA/CD 10/100 auto sense</li> <li>- Power over Ethernet</li> </ul>
<b>Enclosure</b>	
<b>Weather Rating</b>	Die Cast aluminum IP67/IP68 (NEMA-4X) Weathertight
<b>Antenna</b>	1 * N-Female Type
<b>Ethernet Connector</b>	1 * weatherproof Ethernet Connectors (M13) IEEE802.3af compatible PoE (PSE) , 48W max. (48V/0.4A)
<b>LED Indication</b>	Power * 1 , Ethernet *1 , Wireless*1

**Wireless Specification**

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

**Environmental & Mechanical Characteristics**

<b>Operating Temperature</b>	-30 °C ~ 60 °C
<b>Storage Temperature</b>	-30 °C ~ 85 °C
<b>Operating Humidity</b>	100% Non-Condensing
<b>Storage Humidity</b>	100% Non-Condensing
<b>Antenna Connector</b>	1 * N-Female Connector
<b>Power Consumption</b>	7 W
<b>Input Power</b>	12-68 VDC
<b>Connector</b>	RJ 45 (Power Over Ethernet)
<b>Power Supply</b>	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1.5A input



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<b>Unit Dimensions</b>	157(L)x96(W)x45(H) mm
<b>Unit Weight</b>	680g
<b>Form Factor</b>	Wall Mount and Pole Mount Ability, Die-Cast aluminum Enclosure with IP67/68 Rating
<b>Certifications</b>	FCC , CE

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