

**Model No.: WCB1000H5PX Wireless-bg, 2.4GHz, 500mW Outdoor Bridge**



Lanready outdoor High Power bridge 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 WISP bridge utilizes a 500mW high transmission power. The outdoor bridge 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 Bridge supports three operational modes, the AP mode and the WDS mode and the CPE mode , respectively with built-in remote management features simplify the deployment and reduce cost for continued maintenance of the outdoor bridge .

## High Lights

- Support IEEE 802.11bg
- Operates in the 2.4 GHz ISM band
- 500mW at 2.4Ghz Output Power
- Operation Modes : Access Point, Repeater(WDS) ,Bridge, Client Bridge
- Topology : Point to Point ; Point to Multi Point
- Operation Modes : Access Point, Repeater(WDS) ,Bridge, CPE
- Maxmum Security with 802.1x, WPA, and AES
- Support QoS & WMM
- Integragted Power over Ethernet (PoE)
- Multiple Virtual AP & Capability of Client Isolation
- Business –class WLAN Security and Client Authentications
- Provide Advanced Wireless Setting (ACK/CTS )
- Support Web management and SNMP MIB-II
- Over load current protection



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- Wide Range Voltage support (12-68VDC)
- Integrated Power over Ethernet (PoE)
- Weather-Proof Housing (IP 68 Approved)
- Weather-Proof M-13 RJ45 Connector and N-Type Connector

## Software Feature

### Wireless Architecture Mode :

- AP Mode
- WDS Mode (Repeater/Bridge)
- CPE Mode

### Access Point Feature

- Number of ESSID : 8
- Number of associated clients per AP : 32
- Three Mode : AP Mode , WDS Mode , and CPE Mode
- WDS Mode : to extend wireless coverage by connecting wirelessly to another WDS capable AP.  
Support up to 8 WDS links
- Slot Time , ACK/CTS Timeout
- RSSI threshold support
- TX burst support
- Beacon interval: adjustable to best adapt 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
- RTS and fragmentation control
- Adjustable transmission power : 9 Levels
- Wireless site survey : for scanning the surrounding access points for connection
- VLAN tag support

### Gateway Function in the CPE Mode

- Built-in NAT mode : to support IP sharing on the LAN side for multiple users (subscribers) to get access to the Internet
- Built-in DHCP server for issuing local IP address
- Built-in DNS client
- IP/Port forwarding and DMZ
- IP/MAC rule filtering

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**Authentication/Encryption (Wireless Security)**

- 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
- 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

**Quality of Service**

- DiffServ/TOS
- IEEE802.11p/COS
- IEEE 802.11Q Tag VLAN priority control
- IEEE802.11e WMM

**Management**

- 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
- Syslog client
- Support Event log
- Support statistics on total transmission encountered and transmitting error occurred

**Hardware Specification**

Hardware Specification	
<b>Base Platform</b>	
<b>Processor</b>	AR2315
<b>Wireless Radio</b>	WiFi-G , 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</li><li>- IEEE 802.3, 802.3u compliant</li><li>- CSMA/CD 10/100 auto sense</li><li>- Power over Ethernet</li></ul>
<b>Flash</b>	4MB
<b>SDRAM</b>	16MB
<b>LED Indication</b>	Power , LAN ,Wireless , Wireless Strength (3* LEDs )



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<b>Wireless Specification</b>	
<b>RF Module</b>	AR2315
<b>Wireless Radio</b>	WiFi-G , 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:6/9/12/18/24/36/48/54/108 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>	27 dBm :6MB/1MB, 23dBm:54MB
<b>Receive Sensitivity</b>	1Mbps: -96dBm, 6Mbps:-93dBm,11Mbps:-89dBm,54Mbps:-74dBm
<b>Frequency Response Flatness</b>	±1dB over operating range

<b>Environmental &amp; Mechanical Characteristics</b>	
<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>	9 W
<b>Over Load Current Protection</b>	1.1A
<b>Input Power</b>	12-68 VDC
<b>Ethernet Connector</b>	1 * weatherproof Ethernet Connector
<b>Power Supply</b>	AC Input : 110 – 220V AC Power DC Output : 12 VDC, 1.5A input
<b>Unit Dimensions</b>	WCB1000H5PX : 0.68KG
<b>Unit Weight</b>	WCB1000H5PX: 157(L)x96(W)x45(H) mm
<b>Form Factor</b>	Wall Mount and Pole Mount Ability, Die-Cast aluminum Enclosure with IP67/68 Rating
<b>Certifications</b>	

<b>Standard Packing</b>	
<b>Outdoor Bridge Unit</b>	1



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<b>AC/DC Adapter</b>	1
<b>CD User Manual</b>	1
<b>Wall/Pole Mounting Bracket</b>	1