

BROWAN

BW2250 Ro HS

Dual Radio 2.4GHz/5GHz Outdoor Access Point
V 1 . 7



Flexibility and high performance

BROWAN BW2250 is built to be a high-performance and feature-rich outdoor Access Point. BW2250 offers flexibility for deploying enterprise-scale wireless networks including warehouses, universities, airports, hospitals, and large corporations.

- ▲ Simultaneously supports 802.11a and 802.11b/g standard.
- ▲ Mix of AP and Bridge configuration works simultaneously, blanketing last miles with high-speed throughput.
- ▲ Dual AP configuration for both 802.11b/g and 802.11a users in a high client density environment.
- ▲ Dual Bridge (repeater) configuration to extend the transmission range of wireless local bridge.

Secure and reliable wireless networking

BW2250 supports several encryption methods to make wireless connection secure:

- ▲ Supports VLAN, up to 16 VLAN ID per Radio
- ▲ IEEE 802.1x/EAP with password, certificates and SIM card
- ▲ 64bits/128bits static and dynamic WEP encryption
- ▲ Layer 2 Isolation for preventing snooping on the same BSS
- ▲ MAC address filtering (ACL) for preventing illegal attack
- ▲ Hidden SSID broadcast to prevent illegal connection

Strong Anti-interference

Dynamic Channel Allocation (DCA) solution automatically selects optimal operational frequency channel during power up. BW2250 periodically monitors the environment and adjusts for best operational channel. DCA enhances BW2250 performance and provides continuous coverage in highly dense wireless AP environment.

Multiple BSSID "Virtual AP" Technology

BW2250 supports up to 16 BSSID per radio and each BSSID can be configured independently to support various security policies, authentication model, RADIUS servers and VLAN IDs. Each BSSID can also be set with different priority based on 802.1p tag or 802.11e EDCA which enables WLAN client device to access wireless with QoS capabilities.

Quick Installation and Deployment

BW2250 equips in an aluminum-alloy frame-resistant with waterproof design housing, and is able to operate even under extreme weather conditions. An integrated IEEE 802.3af Power-over-Ethernet port enables effortless deployment in various environments. It also includes a special Antenna Alignment Tool which can assist long range wireless bridging installation to ensure the optimal bridging performance.

Easy and Secure Remote Management

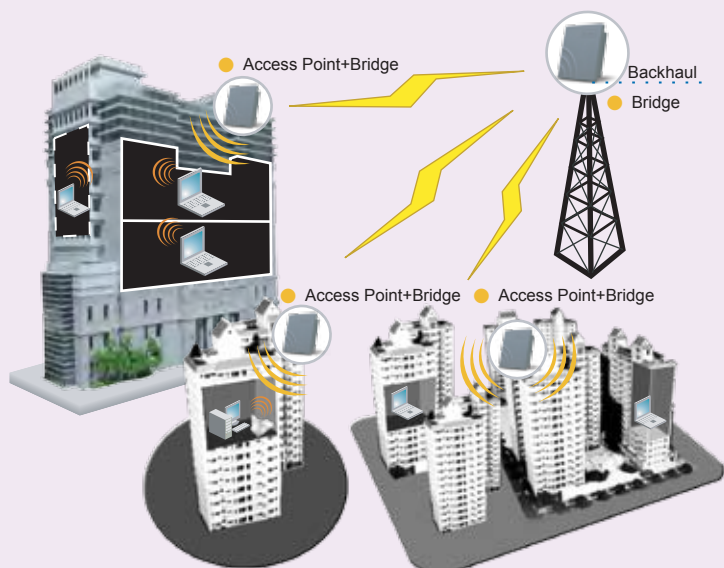
BW2250 supports secure remote management through HTTPS, CLISH and SNMP connections.

- ▲ Web-based user interface with HTTPS request supplies secure remote management
- ▲ BROWAN NMS product supplies the system management solution
- ▲ Remote software upgrading via HTTPS
- ▲ Detailed client and site survey
- ▲ Bridge/Client Diagnostic Tool: to optimize the installation for wireless bridging and monitoring operational status

✧ Features

- ▲ Two dual-band radios, supporting 802.11a/g/b simultaneously
- ▲ Superior Wireless Bridging Capability (P/P/PMP and Repeater)
- ▲ Layer 2 Isolation prevents wireless clients from communicating with each other
- ▲ Supports 802.1x authentication using EAP-TLS, EAP-TTLS, PEAP, and SIM
- ▲ Wired Equivalent Privacy (WEP) using static or dynamic key of 64 or 128 bits
- ▲ Support up to 16 BSSID per Radio - "Virtual AP"
- ▲ Wireless Protected Access with TKIP or AES
- ▲ Anti-Interference with Dynamic Channel Allocation (DCA)
- ▲ Hidden SSID for blocking illegal users access
- ▲ Remote firmware upgrade via HTTPS
- ▲ Remote secure management by HTTPS and SNMP
- ▲ Software and hardware watchdogs supported
- ▲ MAC Access Control List (ACL)
- ▲ Support up to 16 VLAN ID per Radio
- ▲ Wireless Quality of Service
- ▲ Backup/restore configuration settings
- ▲ NTP for clock synchronization
- ▲ Weather-proof metal enclosure (IP68)
- ▲ Patented membrane design for airflow
- ▲ Water-tight Cat.5 and console connector
- ▲ IEEE 802.3af PoE supported
- ▲ RF power adjustable
- ▲ Built-in RJ-45 surge arrester, protecting lightning damage.

✧ Application



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✧ Specification

WIRELESS SPECIFICATION		
Data Rate Supported	802.11a : 6, 9, 12, 18, 24, 36, 48, and 54 Mbps 802.11b : 1, 2, 5.5, 11 Mbps 802.11g : 6, 9, 12, 18, 24, 36, 48, and 54 Mbps	
Frequency Band	802.11a : 5.150-5.350GHz and 5.725-5.825GHz 802.11b/g : 2.4-2.483GHz, North American Channel (1-11)	
Modulation	802.11a : OFDM	802.11b: DSSS 802.11g: OFDM
Receive Sensitivity	802.11a/g @PER≤10% 54Mbps @ -70dBm 48Mbps @ -72dBm 36Mbps @ -76dBm 24Mbps @ -80dBm 18Mbps @ -82dBm 12Mbps @ -84dBm 9Mbps @ -86dBm 6Mbps @ -88dBm	802.11b @PER≤8% 11Mbps @ -86dBm 5.5Mbps @ -88dBm 2Mbps @ -90dBm 1Mbps @ -92dBm
Transmit Power	802.11a/g Max 17dBm ± 2dBm@ 6~24Mbps Max 15dBm ± 2dBm@ 54Mbps 802.11b Max 18dBm ± 2dBm@ 1~11Mbps (Maximum power will vary by channel, rate and regulatory domain)	
Antenna	Two N type connectors	
Radio	Two dual-mode 802.11a and 802.11b/g radio cards	
PRODUCT SPECIFICATION		
Interface	1 X waterproof 10/100 Mbps Ethernet port	1 X waterproof console port
Physical Characteristics	Dimension: L:230 x W:200 x H:65 mm	Weight: 1800g± 100g
Environment	Operating temperature: -30°C ~ +70°C Storage temperature: -40°C ~ +80°C Humidity: 95% (non-condensing)	
Power Supply	IEEE 802.3af compliance PoE (48V)	
Power Consumption	8W(maximum)	
NETWORK MANAGEMENT		
Remote Management	HTTPS, SSH, Telnet, SNMP(v1, v2), BROWAN Kickstart AP tool, and Fully manageable using BROWAN NMS	
MIBs	MIB II for IP (RFC 1213), Bridge MIB, Ethernet MIB, BROWAN Private MIB, 802.11 MIB	
NTP Synchronization	RFC 1305	
Self-Recovery Ability	Hardware Watchdog	
Firmware Upgradeable	Remote Firmware upgrade	
REGULATORY		
Certification : CE, FCC ,IP68	Compliance : RoHS, WEEE	
WARRANTY		
One Year		

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