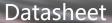


Shanghai Baud Data Communication Co., Ltd.

WLAN Wireless

WAP2100-W512 In-wall/Panel Intelligent WAP



WAP2100-W512 In-wall/Panel Intelligent WAP

Product Overview

BDC

WAP2100-W512 is the BDCOM-developed in-wall wireless AP oriented for space-intensive indoor scenarios such as school dormitories, hotel rooms, hospital wards, and apartments.

WAP2100-W512 in-wall AP is suitable for 86*86mm universal design and conforms to national standards. The AP's power supply, data cable and WiFi antenna can be hid when installing, which helps to keep the user's indoor environment clean and tidy, and also helps to reduce network failure nodes and maintenance difficulty.



Product Characteristics

High-performance Wireless Solutions

WAP2100-W512 is built with high-performance wireless chipset, and supports 802.11a/b/g/n/ac/wave2 and other wireless protocols, with high throughput and good stability. The 2.4G and 5G devices can support 1267Mbps air interface bandwidth to satisfy up to 40 users with service access, with strong concurrency capability.

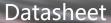
WAP2100-W512 supports wireless load balancing. In high-density access scenarios, WAP2100-W512 can achieve reasonable allocation of terminals within a single AP through the 2.4GHz and 5GHz spectrum while ensuring balanced traffic distribution among multiple APs to avoid congestion, which enables the AP to access more end users, and provides the better Internet service.

Comprehensive Security Features

WAP2100-W512 supports WEP/WPA/WPA2 access modes, wireless IPS/IDS, the layer-2 user isolation, and centralized ACL control.

WAP2100-W512 supports docking with WSC6100 wireless AC and BCP8200 cloud platform, provides rich and practical diversified authentication functions for computers, mobile phones, tablets and other terminals, to facilitate user access authentication.

WAP2100-W512 provides illegal AP detection and subsequent processing, wireless attack defense, static black and white lists, to reduce the illegal intrusion on wireless networks.



User-friendly Design Details

WAP2100-W512 is equipped with LED controllable design: the LED lights can be turned off during the night break to avoid irritating the eyes; all the LED lights can be turned on to improve the operation efficiency during the network inspection. All the LEDs can be controlled in batches through the AC, and can also be switched individually with each AP button, which is very flexible and convenient.

WAP2100-W512, equipped with a dust-proof curtain on network ports, can effectively prevent dust to keep the device clean and tidy.

In addition to classic white shell, WAP2100-W512 is also available in pure black, dark gray and light gold, which perfectly match the user's interior decoration style.

Practical Engineering Design

The compact design of WAP2100-W512 can be completely embedded in the wall of 86*86mm national standard size. In the case of ensuring wireless signal coverage and heat control, the size of the AP is reduced by about 15%, which can not only keep the overall environment neat, but also help to deal with difficulties such as "cement block obstacles", "network cable reservation", and "thermal expansion and cold contraction" during construction.

WAP2100-W512 provides a wired and wireless integrated design. While providing WLAN wireless signal coverage, WAP2100-W512 also features an Ethernet interface to ensure that users' original network cable resources are not wasted.

Rich Manageable Features

WAP2100-W512 supports the integrated design of fat and thin APs, which can be individually configured, and can also be connected to BDCOM WSC6100 series wireless ACs to realize CLI, Web, SNMP management.

WAP2100-W512 can also be managed through the BDCOM cloud-based operation platform to achieve unified management of AC, switches, routers, security and other products, greatly improving the efficiency of operation and maintenance.

Model	BDCOM WAP2100-W512
Ethernet port	1 GE WAN (POE supported)
	1 GE LAN (dust-proof)

Product Specifications

BDC@M

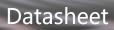
Operating frequency	2.4GHz and 5GHz
Wireless protocol	802.11 a/b/g/n/ac/wave2
Wireless MIMO	Dual frequency 4 streams
Air interface rate	1267Mbps
Antenna type	Built-in omnidirectional
RF Power	18dBm
Coverage areas	Recommended 10 meters, a single room
Recommended concurrent users	40 users with service (may be affected by the environment)
Other interface	1 RST/LED switch
Power supply	POE input
Power consumption	No more than 10W
Deployment method	86*86mm in-wall
Dimensions (WxDxH)	86×86×36mm
Weight	100g
Operating temperature	0° C~50° C
Operating humidity	10%~95% (non-condensation)
Protection class	IP41

Software Specification

Working mode	Supports AP Mode, Routing mode, Bridging Mode
IP functions	Supports IPv4, DHCP, NTP protocols
	Supports static IP allocation, dynamic DHCP and PPPoE dial-up
Wireless	Supports CAPWAP management protocol



management	Supports Option43, DNS to discover AC
	Supports Layer 2 and Layer 3 networking of AC and AP
	Supports cross-NAT networking of AC and AP
	Supports Layer 2 and Layer 3 user roaming
	Supports clock, version and configuration synchronization of AC and AP
	Supports 802.11 protocol suite
	Supports multiple SSID management, Chinese SSID and SSID hiding
14/1 I	Supports no SSID, VLAN binding function
Wireless access	Supports SSID-based user limit and isolation
	Supports each SSID to specify the parameter template separately
	Supports country code setting
	Supports local authentication and Cloud authentication
User authentication	Supports multiple authentication methods such as local account, SMS, WeChat, and coupons
	Supports user black and white lists
	Supports account-based access period control and bandwidth control
	Supports 802.11e/WMM
	Supports global traffic rate limit
QoS	Supports AP-based, VLAN-based, User-based traffic rate limit
	Supports frequency-based, AP-based flow load balancing
Wireless optimization	Supports one-click network optimization, customs wireless RF parameters
	Default 8 wireless scene templates, supports user-defined templates
	Supports automatic background optimization
	Supports 5G prior access, supports restrict access of low-rate users



	Supports WEP, WPA, WPA2 wireless encryption
	Supports IP-based, MAC-based filtration
	Supports DDoS, De-Auth anti-attack
	Supports Rogue AP detection
Application added	Supports for RTLS probes
	Supports docking wireless positioning system
Management and maintenance	Supports traditional device management such as Telnet, SSH, Web, SNMP and TR069
	Supports ping, tracert, debug and other diagnostic tools
	Supports CAPWAP-based AC centralized management
	Supports COP unified management
	Support AP indicator on and off

Ordering Information

Model	Description
	WAP2100-W512 in-wall intelligent WAP, 2 Gigabit Ethernet ports, 1 LED
WAP2100-W512	switch, built-in MIMO antenna, Wave2 protocol, 1267Mbps wireless rate,
	POE power supply (POE devices need to purchase.)
WAP-Skin-Black-01	Panel AP with black housing, suitable for WAP2100-W512
WAP-Skin-Grey-01	Panel AP with gray housing, suitable for WAP2100-W512
WAP-Skin-Gold-01	Panel AP with gold housing, suitable for WAP2100-W512
WAP-PSE-1000	Single-port Gigabit PSE power supply module

For More Information

For more information about BDCOM WAP2100-W512 In-wall Intelligent WAP, please contact your local BDCOM account representative.

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