



Shanghai Baud Data
Communication Co., Ltd.

WLAN Wireless

WAP2100-T22E-v2

High-density Ceiling-mounted Intelligent WAP

WAP2100-T22E-v2 High-density Ceiling-mounted Intelligent WAP

Product Overview

WAP2100-T22E-V2 is the BDCOM-developed ceiling-mounted wireless AP oriented for various mid- and high-density wireless scenarios such as government, enterprises, schools, hotels, hospitals, and smart buildings.

Built with Qualcomm chip, WAP2100-T22E-V2 is endowed with high throughput and strong concurrent access capability. WAP2100-T22E-V2 stands out with the built-in omnidirectional MIMO high-power antenna to meet the wireless coverage to the greatest extent. In addition, the compatibility with both POE and Adaptor power supply solutions and its elegant appearance enable WAP2100-T22E-V2 to be widely used for ceiling-mounting of gypsum board, cement roof and other occasions. Therefore, WAP2100-T22E-V2 is your best choice for building an economical wireless network solution.



WAP2100-T22E-v2

Product Characteristics

▪ High-performance Wireless Solutions

WAP2100-T22E-V2, built with Qualcomm chip solution, supports 802.11a/b/g/n/ac/wave2 protocols and has high throughput and good stability. WAP2100-T22E-V2 features 2.4&5.8GHz frequency band to support 1167Mbps air interface bandwidth, which can meet the maximum of 90 terminal user accesses.

WAP2100-T22E-V2 supports wireless load balancing. In high-density access scenarios, WAP2100-T22E-V2 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.

▪ Considerate Enterprise-level Wireless Network Optimization

WAP2100-T22E-V2 supports wired and wireless QoS, automatic terminal identification, automatic channel selection, automatic power adjustment, dynamic receiving sensitivity and other

carrier-level network optimization features while accessing a large number of users, which serves enterprises with easy-to-use and practical WLAN experience.

WAP2100-T22E-V2 can also cooperate with WSC6100 series wireless controllers to achieve the "one-key wireless automatic optimization", ensuring that users complete network tuning by themselves when the wireless environment changes and user experience declines, without waiting for manufacturers or agents to come to service.

- **Comprehensive Wireless Security Features**

WAP2100-T22E-V2 supports WEP/WPA/WPA2 access modes, wireless IPS/IDS, the layer-2 user isolation, and centralized ACL control.

WAP2100-T22E-V2 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-T22E-V2 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-T22E-v2 is equipped with LED controllable design: the LED lights can be turned off during the night break to avoid irritating the human 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.

- **Rich Manageable Features**

WAP2100-T22E-V2 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-T22E-V2 can also be managed through the BDCOM BCP8200 cloud platform and operation and maintenance platform that can provide one-stop solutions for authentication, push, operation and maintenance, and security.

Product Specifications

Ethernet port	1 Gigabit uplink port (Support POE) 1 Gigabit LAN port
Button	1 RST button

Wireless Protocol	802.11 a/b/g/n/ac/Wave2
Operating Frequency	2.4GHz and 5GHz
Air Interface Rate	1167Mbps
RF Power	24dBm
Maximum Access User	90
Multiple SSID	16 per radio (recommended less than 5)
Power supply	POE input or 12V/1.5A adapter power supply
Power consumption	15W
Mounting	Ceiling-mounted
Dimensions (W×D×H)	210×210×31mm
Weight	395g
Operating temperature	0° C~50° C
Operating humidity	10%~95% (non-condensation)

Note: Actual performance may vary due to application scenarios and traffic.

Software Specification

Working mode	AP Mode	Supported
	Routing mode	Supported
	Bridging Mode	Supported
IP functions	IPv4	Supported
	DHCP	Supported
	NTP	Supported
CAPWAP	Option43 to discover AC	Supported
	DNS to discover AC	Supported
	AC and AP cross-layer three networking	Supported
	AC and AP cross-NAT networking	Supported
	Two-layer roaming	Supported

	Three- layer roaming	Supported
	AC and AP clock synchronization	Supported
	AC and AP version synchronization	Supported
	AC and AP configuration delivery	Supported
Wireless access	802.11 protocols	Supported
	Multiple SSIDs	Supported
	Wireless user isolation (VLAN-based)	Supported
	SSID-based user limit	Supported
	Automatic aging for user without traffic	Supported
	Online state detection	Supported
	SSID hidden	Supported
	Chinese LOGO	Supported
	Multi-country code deployment	Supported
	Open System	Supported
	WPA authentication	Supported
	WPA2 authentication	Supported
WAP & WAP2 hybrid authentication	Supported	
Wireless authentication	Local Portal authentication	Supported
	Cloud Portal authentication	Supported
	WeChat authentication	Supported
	Account-based time period control	Supported
	Account-based bandwidth control	Supported
	Authentication-free whitelist	Supported
QoS	802.11e/WMM	Supported
	ESS-based traffic rate limit	Supported
	Global traffic rate limit	Supported
	VLAN-based traffic rate limit	Supported
	User-based traffic rate limit	Supported

	AP-based flow load balancing	Supported
	Frequency-based flow load balancing	Supported
Wireless optimization	AP channel and power static setting	Supported
	AP channel and power dynamic setting	Supported
	5G prior access	Supported
	Restrict access of low-rate users	Supported
	Preset and customized scene management	Supported
	One-click network optimization	Supported
Security	ACL filtration	Supported
	MAC filtration	Supported
	URL filtration	Supported
	DDoS anti-attack	Supported
	De-Auth anti-attack	Supported
	Rogue AP detection	Supported
Application added	RTLS	Supported
	Wireless positioning	Supported
Management and maintenance	Telnet	Supported
	SSH	Supported
	Web	Supported
	SNMPv2 / v3	Supported
	Global LED switches	Supported
	Global AP states display	Supported
	Global terminal states display	Supported
	Network diagnostic tools	Supported
	Access to BDCOM Cloud Operating Platform	Supported

Ordering Information

Model	Description
WAP2100-T22E-v2	WAP2100-T22E-v2 ceiling-mounted intelligent WAP, 2 Gigabit Ethernet ports, built-in MIMO antenna, 802.11a/b/g/n/ac/wave2, 1167Mbps Wireless, POE power supply and Adaptor power supply (Power supply devices need to purchase.)
WAP-PSE-1000	Single-port Gigabit PSE power supply module
Adaptor	12V/1.5A adapter

For More Information

For more information about [BDCOM WAP2100-T22E-v2 Ceiling-mounted Intelligent WAP](#), please contact your local BDCOM account representative.

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