



Shanghai Baud Data
Communication Co., Ltd.

WLAN Wireless

WAP2100-T736

WiFi7 Ceiling-mounted AP

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Product Overview

BDCOM WAP2100-T736 is a WiFi 7 ceiling-mounted wireless AP developed by BDCOM for high-density wireless scenarios such as enterprises, schools, hospitals, government offices, hotels, smart buildings, exhibition centers, and stadiums.

WAP2100-T736 is designed with high-performance RF chip solution, boasting high throughput and strong concurrent access capability. In conjunction with its built-in omnidirectional MIMO high-power antenna, it can maximize WLAN wireless coverage and avoid signal dead zones. It supports both PoE and Adaptor power supply solutions. It has a beautiful appearance and can be widely used for ceiling-mounting in various occasions such as gypsum board and cement roof. Therefore, WAP2100-T736 is your best choice for building an economical wireless network solution.



WAP2100-T736

Product Characteristics

▪ High-performance Wireless Solutions

WAP2100-T736 is built with high-performance WiFi7 wireless chipset, and supports 802.11a/b/g/n/ac/ax/be protocols, with high throughput and good stability. The 2.4G and 5G devices can support 3600Mbps air interface bandwidth to satisfy up to 150 users with service access, with strong concurrency capability.

Supports wireless load balancing. In high-density access scenarios, it 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.

▪ Support MLO Technology

Supports Multi-Link Operation (MLO) functionality, enabling the AP to establish multiple wireless RF links with terminals simultaneously. Depending on the usage scenario and air interface conditions, it enhances overall data transmission rates, reduces latency, and improves the reliability of data transfer.

- **Powerful Automatic Network Optimization**

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.

WAP2100-T736 can also cooperate with WSC6100 series wireless controllers to achieve the "one-key wireless automatic optimization" and "background automatic optimization", ensuring that users complete network tuning by themselves when the wireless environment changes, without waiting for manufacturers or agents to come to service.

- **Comprehensive Security Features**

Supports WEP/WPA/WAP2 access modes, wireless IPS/IDS, the layer-2 user isolation, and centralized ACL control.

Supports docking with wireless AC and PALLAS cloud platform, provides rich and practical diversified authentication functions for computers, mobile phones, tablets and other terminals, to facilitate user access authentication.

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**

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-T736 and its mounting bracket adopt ultra-thin shape, and the network port is also designed to be retracted and hidden. The well-installed AP can be better integrated with the surroundings to ensure beauty and cleanliness.

- **Rich Manageable Features**

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-T736 can also be managed through the BDCOM PALLAS cloud operation platform to achieve unified management of AC, switches, routers, security and other products, greatly improving the efficiency of operation and maintenance.

Product Specifications

Model	BDCOM WAP2100-T736
Ethernet port	1-port 2.5G Ethernet, backward compatible with Gigabit port (PoE supported) 1-port Gigabit LAN
Operating frequency	2.4GHz and 5GHz
Wireless protocol	802.11 a/b/g/n/ac/ax/be
Wireless MIMO	2.4GHz: MIMO2*2 5.0GHz: MIMO2*2 Dual-band with 4 spatial streams
Air interface rate	3600Mbps
Antenna type	Built-in omnidirectional
RF Power	23dBm
Coverage areas	10~30 meters (may be affected by the environment)
Recommended concurrent users	150 users with service (may be affected by the environment)
Other interface	1 RST/LED switch
Power supply	802.3af/at PoE input or 12V DC
Power consumption	No more than 16W
Deployment method	Ceiling-mounted, desktop
Dimensions (WxDxH)	180×180×26mm
Weight	400g
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 address acquisition methods such as static IP assignment, dynamic DHCP, and PPPoE
Wireless management	Supports CAPWAP management protocol
	Supports discovery of AC through Option 43, DNS, etc.
	Supports Layer 2 and Layer 3 networking of AC and AP
	Supports cross-NAT networking for AC and AP
	Supports user roaming based on Layer 2 and Layer 3
	Supports clock synchronization, version synchronization, and configuration synchronization between AC and AP
Wireless access	Supports 802.11 protocol suite
	Supports multi-SSID management, Chinese SSID and SSID hiding
	Supports unbinding of SSID and VLAN
	Supports SSID-based user limit and isolation
	Allows setting individual parameter templates for each SSID
	Supports country code settings
User authentication	Supports local authentication and Cloud authentication
	Supports multiple authentication methods such as local account, SMS, WeChat, and vouchers
	Supports user whitelist and blacklist
	Controls user access time and bandwidth
QoS	Supports 802.11e/WMM
	Supports global traffic rate limit

	Provides traffic rate limiting based on AP, VLAN, and user
	Supports user load balancing based on wireless frequency bands and APs
Wireless optimization	Supports one-click automatic network optimization and custom RF parameter settings
	Default 8 wireless scene templates, supports user-defined templates
	Supports automatic background optimization without manual intervention
	Supports 5G prior access, supports restrict access of low-rate users
Security	Supports PSK authentication method
	Supports WEP, WPA, WPA2, WPA3 wireless encryption
	Supports security filtering based on IP and MAC
	Protects against DDoS, De-Auth, and similar attacks
	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
	Offers diagnostic tools such as ping, tracer, and debug
	Supports centralized AC management via CAPWAP
	Supports PALLAS unified cloud management
	Support AP indicator light control

Ordering Information

Model	Description
WAP2100-T736	WAP2100-T736 High-Density WiFi7 Ceiling-mounted Intelligent AP, 1-port 2.5G Ethernet, 1-port Gigabit RJ45, built-in MIMO antenna, supports WiFi7

	protocol, up to 3600Mbps wireless rate, supports PoE and adaptor power supply (power supply devices need to purchase.)
Adaptor	12V/1.5A adapter

For More Information

For more information about [BDCOM WAP2100-T736 Intelligent AP](#), please contact your local BDCOM account representative.

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