

Ceiling-mounted Intelligent Wireless AP

# WAP2100-T Series

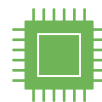


## Product Overview

BDCOM WAP2100-T Series is a wireless access point developed for public indoor sites. It adopts MIMO antenna optimization solution, providing a high-speed, stable and secure wireless network for the user.

WAP2100-T Series is characterized by ceiling-mounted design, merging with indoor environments. It can match AP with In-wall mounted, desktop-mounted, and other installations, which forms a complete indoor wireless distribution system.

Besides, BDCOM WAP2100-T Series supports redundancy power supplies with PoE and adaptor, and simple but low-cost construction plans.



### High performance

Qualcomm chip  
Dual-frequency Wave2 protocol



### Anti-interference

Electromagnetic shielding shield  
Floor-to-floor interference rejection (Applicable to T22E)  
One-key automatic optimization



### User-friendly design

LED on-off  
Anti-theft (Applicable to T22E)  
Installation without trepanning the ceiling

# Product Characteristics

## Product Overview

BDCOM WAP2100-T Series adopts the latest Qualcomm chip and 802.11 a/b/g/n/ac/wave2 MIMO technique. Its transmission rate in the physical layer is up to 1750Mbps. It has been widely applied in indoors, such as enterprises, hotels, hospitals and halls.

BDCOM WAP2100-T Series is of high throughput and can access to 250 users in maximum and enables 100 users work concurrently.

## Flexible Installation Configuration

BDCOM WAP2100-T Series AP supports various installations, such as wall-mounted and derrick-mounted. WAP2100-T Series is characterized by separated type, deciding the models of antennas and hosts and their installations in different sites;

BDCOM WAP2100-T Series AP provides enough choices for network planning and projecting.

## Wireless Security

BDCOM WAP2100-T Series supports WEP, WPA, WPA2, WPA-psk, WPA2-psk, 802.11i, MAC, Web, 802.1x authentication, illegal AP detection, blacklist and whitelist.

With these authentication and encryption measures, it provides with a safe and reliable network environment.

## Model list



## Enterprise-Level Application

BDCOM WAP2100-T Series has following functions: IEEE 802.11 serial, flow control, QoS, fair access time, automatic terminal identification, multiple SSIDs, dynamic power/rate regulation, dynamic reception flexibility and fat or fit AP mode.

Combining with BDCOM AC, BDCOM WAP2100-T Series can realize automatic channel selection, power adjustment, user and service load balance.

## One-Stop Solution

Collaborating with BDCOM WSC6100 Series, layer-2 and layer-3 PoE switches, broadband security flow gateways, large commercial egress gateways, BCP 8200 cloud platforms and network management system, WAP2100-T Series can provide one-stop solution to the user including authentication, pushing, operating, security, accounting and monitoring.



### WAP2100-T12D

- 1\*100M PoE WAN, 1\*100M TX LAN
- 802.11 b/g/n
- 300Mbps wireless
- PoE and adaptor



### WAP2100-T21D

- 1\*100M TX WAN, 1\*100M TX LAN
- 802.11 a/b/g/n/ac
- 733Mbps wireless
- PoE and adaptor



### WAP2100-T22D-W2

- 1\*GE PoE WAN
- 2\*GE TX LAN
- bluetooth
- 802.11 a/b/g/n/ac/wave2
- 1167Mbps wireless
- PoE and adaptor

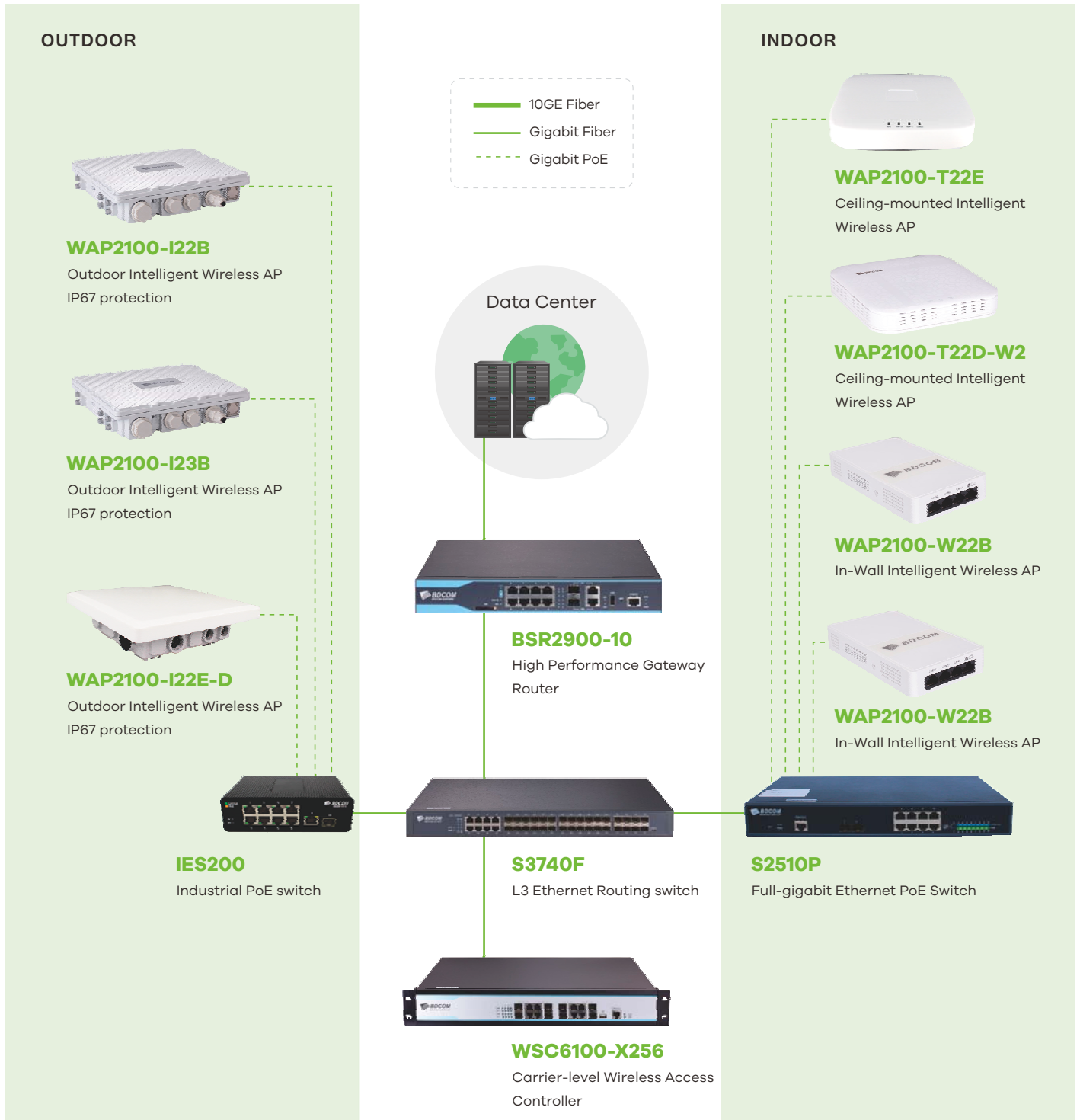


### WAP2100-T22E

- 1\*GE PoE WAN
- 802.11 a/b/g/n/ac/wave2
- 1167Mbps wireless
- PoE
- Electromagnetic shielding shield



# Application Diagram



# System Performance

Item	WAP2100-T12D	WAP2100-T21D	WAP2100-T22E	WAP2100-T22D-W2	
<b>Interface</b>					
Port	1 100M PoE WAN 1 100M TX LAN	1 100M PoE WAN 1 100M TX LAN	1 GE PoE WAN	1 GE PoE WAN 2 GE TX LAN	
Button	RESET	RESET	RESET	RESET	
<b>Wireless parameters</b>					
Standard	802.11/b/g/n	802.11/a/b/g/n/ac	802.11/a/b/g/n/ac/wave2	802.11/a/b/g/n/ac/wave2	
	MIMO 2x2 300Mbps	MIMO 2x2/1x1 733Mbps	MIMO 2x2/2x2 1167Mbps	MIMO 2x2/2x2 1167Mbps	
Best performance	60 user access	100 user access	150 user access	200 user access	
	50 users recommend	60 users recommend	80 users recommend	80 users recommend	
	16 SSIDs	32 SSIDs	32 SSIDs	32 SSIDs	
Working frequency	2.412-2.4835GHz	2.412-2.4835GHz	2.412-2.4835GHz	2.412-2.4835GHz	
		5.150-5.250GHz	5.150-5.250GHz	5.150-5.250GHz	
		5.250-5.350GHz	5.250-5.350GHz	5.250-5.350GHz	
		5.470-5.725GHz	5.470-5.725GHz	5.470-5.725GHz	
		5.745-5.825GHz	5.745-5.825GHz	5.745-5.825GHz	
Antenna	Built-in antenna 3dBi	Built-in antenna 3dBi	Built-in antenna 3dBi	Built-in antenna 3dBi	
Output power(dBm)	24/channel	24/channel	24/channel	25/channel	
<b>Appearance</b>					
Chassis	Dimensions (WxDxH) (mm)	Φ=200, H=30	Φ=200, H=30	158×158×28	180×180×25
	Weight(g) (empty)	280	280	300	300
Package	Dimensions (WxDxH) (mm)	264x242x62	264x242x62	232x222x52	232x222x52
	Weight(g)	620	620	630	630
Power supply	802.3af PoE AC adaptor	802.3af PoE AC adaptor	802.3af PoE	802.3af PoE AC adaptor	
consumption	No-load(W)	4	4	7	7
	Full-load(W)	8	8	15	15
Working temperature	-10°C~50°C	-10°C~50°C	-10°C~50°C	-10°C~50°C	
Operating humidity	5%~95% (non condensing)	5%~95% (non condensing)	5%~95% (non condensing)	5%~95% (non condensing)	

# Technical Specifications

## Operating Mode

- FAT AP
- FIT AP
- Routing and Bridging mode

## Network Protocol

- 802.1Q VLAN, 4K
- 802.1p priority queue
- IPv6 Pass-through
- DHCP snooping
- IGMP proxy
- DHCP Server
- NAT
- PPPoE
- SNMP
- SNTp

## Security

- WPA-Personal/Enterprise
- WPA2-Personal/Enterprise
- WEP 64/128-bit Encryption
- EAP-SIM/EAP-AKA/EAP-MD5/EAP-TLS/EAP-TTLS/PEAP

- SSID broadcast disable
- MAC address filtering
- 802.1x RADIUS client with PAP/CHAP
- Local and cloud portal authentication
- SNS/SMS based authentication
- Whitelist
- IP/MAC/URL filter
- Anti attack for DDOS

## CAPWAP

- DHCP option 43 and DNS based AP discovery
- AC,AP cross- 3 layers and cross NAT networking
- AP layer-2 and layer-3 roaming under the same AC
- AC/AP clock synchronization
- AC/AP version synchronization
- AC/AP configuration synchronization

## WLAN feature

- User isolation
- Multiple SSID
- SSID hide
- Static and dynamic configuration of AP channel
- Static and dynamic configuration of AP power
- Fair access time
- Automatic channel selection
- Automatic power control
- Wireless terminal identification
- 5G prior access

## Management

- Web
- Telnet
- CLI
- AC centralized management
- SNMP
- Ping/traceroute
- COP platform

## Ordering Information

WAP2100-T12D	BDCOM WAP2100-T12D Series Ceiling-mounted Intelligent Wireless AP (1*100M PoE WAN port, 1*100M TX LAN port, built-in MIMO antenna, 802.11 b/g/n, 300M wireless bandwidth, PoE and adaptor power supply(requiring additional purchase))
WAP2100-T21D	BDCOM WAP2100-T21D Series Ceiling-mounted Intelligent Wireless AP (1*100M PoE WAN port, 1*100M TX LAN port, built-in MIMO antenna, 802.11 a/b/g/n/ac, 733M wireless bandwidth, PoE and adaptor power supply(requiring additional purchase))
WAP2100-T22E	BDCOM WAP2100-T22E Series Ceiling-mounted Intelligent Wireless AP (1*GE PoE WAN port, built-in MIMO antenna, 802.11 a/b/g/n/ac/wave2, 1167M wireless bandwidth, PoE power supply)
WAP2100-T22D-W2	BDCOM WAP2100-T22D-W2 Series Ceiling-mounted Intelligent Wireless AP (1*GE PoE WAN port, 2*GE TX LAN ports, built-in MIMO antenna, 802.11 a/b/g/n/ac/wave2, 1167M wireless bandwidth, PoE and adaptor power supply(requiring additional purchase))
WAP-APT-12B	AC-adaptor(12V/1.5A)
WAP-APT-48	AC-adaptor(48V/0.5A)
WAP-PSE-1000	Single port 1000M PSE power supply module

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