BDCOM

Shanghai Baud Data Communication Co., Ltd.

WLAN Wireless

BDCOM WSC6100-X16B Series

Enterprise-Level AC/Broadband/Authentication Three-in-one Gateway

BDCOM WSC6100-X16B Series

Product Overview

WSC6100-X16B Series is a multi-functional gateway developed by BDCOM oriented for small wireless scenarios such as SOHO, SMB and company branches.

WSC6100-X16B Series is built with low-power embedded chip, supports CAPWAP standard protocol, complete AC functions NAT and QoS and other broadband protocol suite. It also supports multiple Portal authentication service functions including local and WeChat.

WSC6100-X16B Series integrates functions wireless AC, enterprise broadband and Portal authentication into one, which is of high cost efficacy. It outstands by contact network structure and easy configuration and maintenance.

WSC6100-X16B

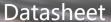## Product Characteristics

➢ **High integrated service**

WSC6100-X16B Series not only supports wireless WAC and but also inlays with functions such as broadband NAT and Portal authentication. Its integration in functions makes it as strong as three common devices. It effectively lower the cost of TCO.

➢ **Simple and easy maintenance**

WSC6100-X16B Series not only reduces the network fault nodes, but also makes the learning threshold and maintenance of the device easier.

WSC6100-X16B Series adopts the flattening configuration page, characterized by simple and easy operation. By changing quantities of terminologies into templates, the configuration become possible for users without professional knowledge. Meanwhile, all parameters in the configuration have been default with the best ones in design. In SOHO and SMB, the device can be applied with no need of configuration.

➢ **Professional Wireless Management Capacity**

Though oriented for SMB, WSC6100-X16B Series fully complies with Telecom-level CAPWAP, which can easily satisfy discovery, management and optimization of AP in batches.

The built-in load balance policy can bear load sharing of multiple APs, avoiding user block partially. It also reasonably distributes access to user ends, ensuring the high-efficient operation of the complete network.

WSC6100-X16B Series supports network optimization such as auto-channel, auto power and user end mobile roaming.

➢ **Complete wireless network security**

The following are functions supported by WSC6100-X16B Series that ensure centralized and safe network access: WEP/WPA/WAP2, wireless IPS/IDS, L2 user isolation, centralized ACL control.

WSC6100-X16B Series supports functions including WEP/WPA/WAP2, wireless IPS/IDS, L2 user isolation, centralized ACL control.

WSC6100-X16B Series also supports multiple Portal authentication, collaboration with BCP8200 cloud platform, which provides users with rich access control solution.

WSC6100-X16B Series also supports illegal AP detection and processing, wireless attack prevention, white list, and blacklist, which greatly reduce shocks over wireless network from illegal users.

➢ **Diversified Operation**

WSC6100-X16B Series supports multiple management modes including CLI, Web and SNMP.

WSC6100-X16B Series also supports batch turning on/off LEDs on AP, this is, LED keeps ON when in check and keeps OFF when at night.

Technical Parameters

Model	WSC6100-X16B Series
Standard interfaces	5 100M TX ports
Power supply	Built-in 220VAC
Max management AP	16

Double AP on the Panel	Support
Max wireless terminal	640
Suggested broadband access	100Mbps
Suggested broadband user	50
Power consumption	12W
Installation	desk-top
Dimensions mm (W×D×H)	270×172×44
Weight	1.7Kg
Operating temperature	0ºC ~ 50ºC
Operating humidity	10% ~ 95% (non-condensing)

Note: The performance may vary with actual application scenarios and traffic in use

Software Specifications

Working mode	Gateway mode	support
	Bypass mode	support
	Wireless local forwarding	support
	Wireless centralized forwarding	support
	AP plug and play	support
IP functions	IPv4 protocol stack	support
	NAT	support
	NAT port mapping	support
	DHCP service	support
	NTP	support
	ARP binding	support
Multi-line	Ethernet private line access	support
	PPPoE dial-number access	support
	Multi-line load balance	support
	Static route	support
CAPWAP	Option43 discover AC	support
	DNS discover AC	support
	AC&AP cross-layer3 networking	support
	AC&AP cross-NAT networking	support
	Layer-2 roaming in the same AC	support
	Layer-3 roaming in the same AC	support

	AC, AP clock synchronization	support
	AC, AP version synchronization	support
	AC, AP configuration	support
Wireless access	802.11 protocol suite	support
	Multi-SSID	support
	Wireless user isolation (based on VLAN)	support
	User number limit based on SSID	support
	User no-traffic auto aging	support
	User online detection	support
	SSID hide	support
	Chinese SSID	support
	Multi-country code deployment	support
	Open System	support
	WPA authentication	support
	WPA2 authentication	support
	WAP & WAP2 hybrid authentication	support
Wireless authentication	Local portal authentication	support
	Cloud portal authentication	support
	WeChat scan authentication	support
	Time segment control based on the account	support
	Bandwidth control based on the account	support
	Whitelist	support
QoS	802.11e/WMM	support
	Flow control based on ESS	support
	Global flow limit	support
	Flow Limit based on service VLAN	support
	Flow control based on the terminal user	support
	Flow load balance based on AP	support
	Flow load balance based on frequency segment	support
Wireless optimization	AP channel, power static configuration	support
	AP channel, power dynamic configuration	support
	5G optimization access	support

	Lower rate user access limit	support
	Preset and self-defined scenario management	support
	One-key network optimization	support
Security	ACL filtration	support
	MAC filtration	support
	URL filtration	support
	DDoS attack prevention	support
	De-Auth attack prevention	support
	Rogue AP detection	support
Value-added application	RTLS	support
	Wireless localization	support
Management and maintenance	Telnet	support
	SSH	support
	Web	support
	SNMPv2 / v3	support
	Global on/off LED	support
	Global AP status display	support
	Global terminal status display	support
	Network diagnosis tool	support
	Collaboration with BDCOM cloud platform	support

Ordering Information

WSC6100-X16B	WSC6100-X16B Series Enterprise-Level AC/Broadband/Authentication Three-in-one Gateway (1 USB, 5 100M Ethernet interfaces, built-in 220VAC power supply, up to 16 APs, License included)

For More Information

For more information about BDCOM WSC6100-X16B Series please contact your local BDCOM account representative.

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