

BS6

5GHz 11n 300Mbps Basestation

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Products Description

BS6 5GHz 11n 300Mbps Basestation is designed for PtP and PtMP solutions for rural wireless connectivity and CCTV surveillance. Features with two RP-SMA enable it to pair with dish antenna or sector antenna to establish PtP backhaul connection and P2MP link. It adopts IP-COM TDMA (Time Division Multiple Access) proprietary protocol--IMAX to improve performance and capacity. The auto-bridging technology enable it easy to setup for both business and home users.



Key Feature

- 5GHz 11n 300Mbps.
- Two RP-SMA Connector.
- IP65 waterproof enclosure.
- 6000V Lightning Protection.
- AP, Station, WISP operating mode supported.
- Up to 60 meters of flexible deployment with included PoE adapter.

Product Features

Multiple Application Scenarios

PtP Backhaul Connection

Pair with Dish antenna, one work as AP mode and another work as Station mode to create a long distance backhaul connection.

P2MP Link

Pair with Sector antenna, BS6 work as AP mode to deliver wireless signal to share Internet to local resident, small office.

IMAX-IP-COM TDMA proprietary protocol

IMAX is IP-COM TDMA (Time Division Multiple Access) proprietary protocol to improve performance and capacity for wireless WISP outdoor application scenarios.

In outdoor environment, the CPE use highly directional antennas to connect to the Base station from distances that can span several kilometers. The CPE can't sense each other, they become "hidden nodes" and cannot coordinate access to the wireless channel. Thus the Base station experiences frequent collisions from stations transmitting simultaneously. As the network scales, these collisions build up exponentially, increasing latency and lowering throughput.

With IMAX, it coordinate all the data transmission and allocates time to active clients to provide greater noise immunity performance when compared to the conventional 802.11 CSMA/CA (Carrier Sense Multiple Access / Collision Avoidance) protocol.

Product Features

Super channel-Extended Frequency

BS6 adopts of Qualcomm AR9344 chipset and special software mechanism optimization for radio driven architecture to offer extended frequency support. This feature is designed to help users get out of the congested, unlicensed 5GHz band and into clean spectrum.

10/20/30/40MHz Channel Bandwidth for better throughput

BS6 applies special optimization in software for register parameter to deliver 10/20/30/40MHz channel bandwidth option. It provides extra 10MHz and 30MHz channel bandwidth option to consumed according application scenarios.

When you choose 30MHz channel bandwidth option, it can increase throughput for noisy environments. When you choose 10MHz channel bandwidth option, it can increase the number of available, non-overlapping channels, so networks can scale better.

Channel shift to avoid interference

BS6 provides Channel Shift feature to offset the central frequency 5MHz upper. It can avoid interference from nearby AP and deliver higher throughput.

CPE Controller-Centralized Management Platform

BS6 equips with centralized management software that helps users easily manage all the devices in their network from a single PC - CPE Controller. Functions like device discovery, status monitoring, firmware upgrading, and network maintenance can be managed By CPE controller.

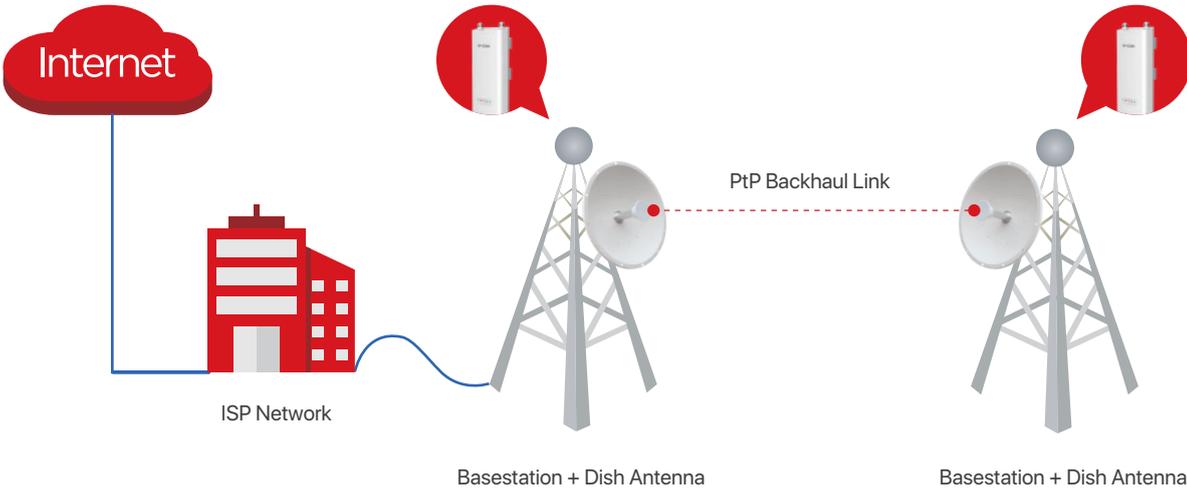
Professional Outdoor Design

BS6 adopt of IP65 weatherproof and 6000V Lightning protection design, It can withstand the harsh environmental conditions such as sunshine, rainfall or extremely low/high temperature environment.

Application Scenarios

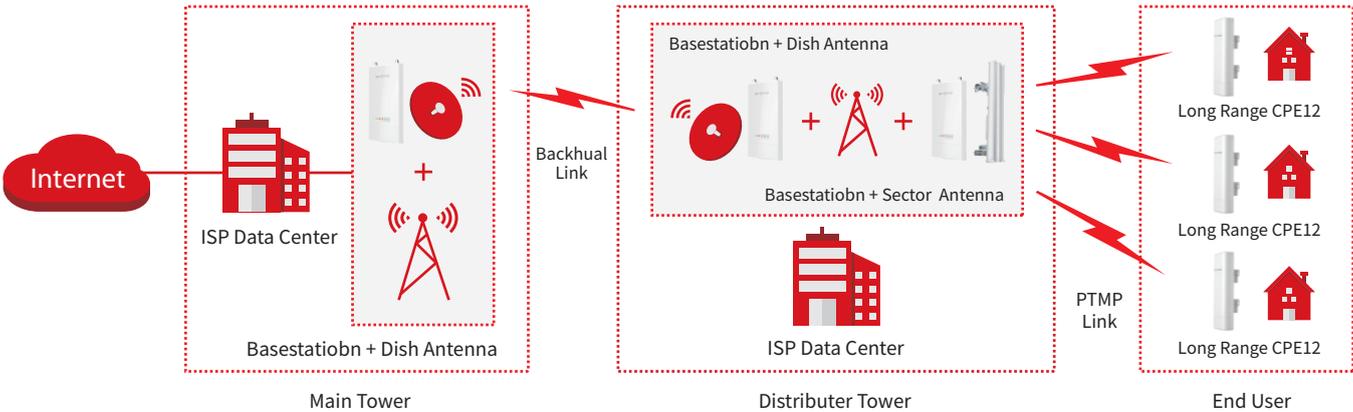
PtP Backhaul Connection

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P2MP Link

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Related Product



AP255

- * 2.4GHz 11n 300Mbps
- * Two 10/100Mbps LAN ports
- * Compliant with PoE 802.3af
- * Vlan tagging for multi SSID
- * 86 Type wall mount junction box design
- * Centralized managed by AC1000/AC2000/AC3000



AP265

- * 11AC dual band 1167Mbps
- * Two 10/100Mbps LAN port
- * Compliant with PoE 802.3af
- * VLAN tagging for multi SSID
- * 86 Type wall mount junction box design
- * Centralized managed by AC1000/AC2000/AC3000



AC2000

- * Easy to configure, manage and monitor Aps
- * Maximum AP managed number up to 512
- * Remote manage multi branch AP and AC
- * Built-in captive portal server and customized welcome page
- * Access device type and customer behavior statistic



M50

- * Multi WAN Load Balance
- * Captive Portal/PPPoE Server
- * Smart bandwidth control
- * PPTP/L2TP/IPSec Server
- * Built-in AP Controller to capable to manage 16 APs

Specifications

Product Information

Model	BS6
Dimensions	194.7*83*42.1mm
Deployment	Pole Mount
Application Scenarios	PtP, PtMP solution for rural wireless connectivity and CCTV surveillance

Hardware Features

Frequency Range	5GHz
Compliant Standards	IEEE 802.11a/n
Private TDMA Protocol	iMAX
Maximum Wireless Rate	300Mbps
Interfaces	1*10/100Mbps Ethernet Port
Antennas	2*RP-SMA Connector
Reset Button	1
GND	1
Power Consumption	8.5W
Waterproof Level	IP65
LED indicator	Power, PoE/LAN,LED1,LED2,LED3
Power Method	24V0.5A Passive PoE
Lightning Protection	6000V
Passive PoE	Passive power over ethernet via PoE/LAN (+4,5pins; -7,8pins) Voltage range: 21-25V DC
Receiver sensitivity	MCS0: -96dbm MCS7: -72dbm

Software Features

Operating mode	AP/Station/WISP/P2MP/WDS Repeater/Router
Enable/Disable Wireless Radio	Support
SSID Hidden	Support
Wireless Client isolation	Support
SSID Isolation	Support
Channel Bandwidth	10/20/30/40MHz
Client Limitation For SSID	Support
Wireless Access Control	Support

Specifications

Weak Signal Client Limitation	Support
Transmission Power	Adjustable power by 1dBm
WMM Capable	Support
APSD Capable	Support
Wireless Security	64/128 WEP,WPA-PSK,WPA2-PSK,WPA&WPA2-PSK,WPA,WPA2
Transparent Bridge	Support
VLAN Tagging for SSID	Support
DHCP Server	Support
VPN Pass-Through	PPTP,L2TP
Remote Web access	Support
Schedule Reboot	Support
Page Timeout	Support
Ping Watchdog	Support
Dyndns	noip, dyndns.org
Network Diagnoses	Ping, Traceroute, Signal Scan
Time&Date Setting	Support
Firmware upgrade	Support
Backup/Restore Configuration	Support
Username Managerment	Support
System Log	Support
Managed By Controller	PC Software -- CPE Controller
Others	
Package Contents	1*5GHz 11n 300Mbps Basestation BS6 1*Passive PoE Power Adapter 1*Quick Installation Guide
Operating Temperature	-30°C ~ 60°C
Storage Temperature	-40°C ~ 70°C
Operating Humidity	10%~90% non-condensing
Storage Humidity	10%~90% non-condensing
Default login IP	192.168.2.1
Default Login Username	admin
Default Login Password	admin
Certifications	FCC/CE/RoHS

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World Wide Wireless

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