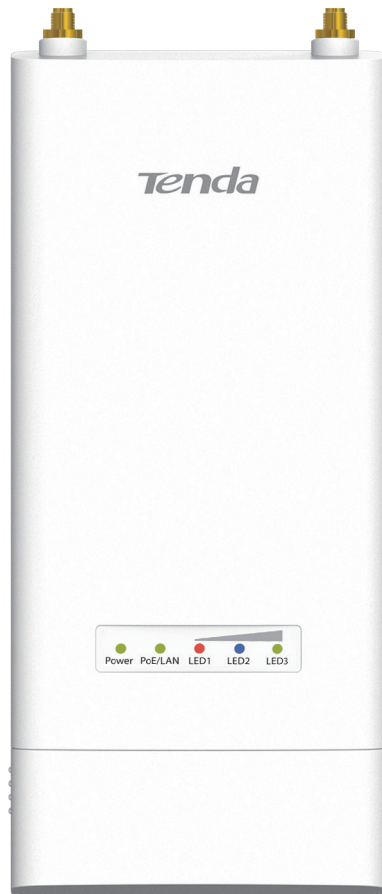# Tenda

All for better networking.

B9

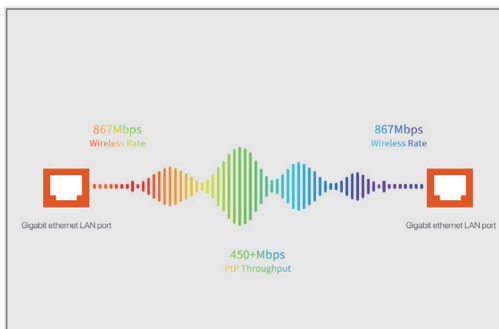5GHz 11AC 867Mbps Outdoor Basestation

Link
More

B9

5GHz 11AC 867Mbps Outdoor Basestation

B9 5GHz 11AC 867Mbps Outdoor 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 Tenda TDMA (Time Division Multiple Access) proprietary protocol--TD-MAX to improve performance and capacity. The auto-bridging technology enable it easy to setup for both business and home users.
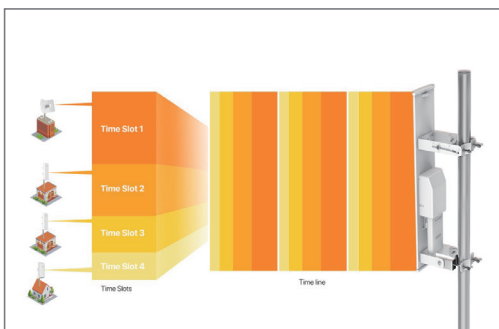
Key Features

- 5GHz 11AC 867Mbps
- 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 adapoter

Product features

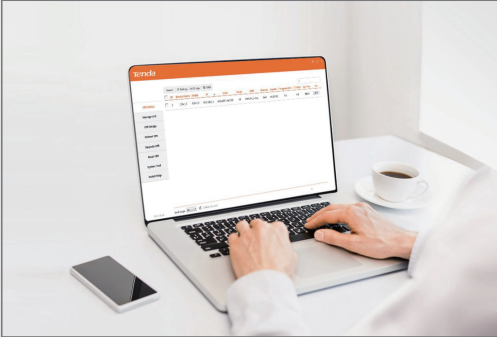## Breakthrough performance for PtP Backhaul Connection

B9 adopt of 11AC wave2 technology, it delivers 867Mbps speed rate at 5GHz radio. Come with gigabit ethernet LAN port, the maximum throughput test for PtP connection can be up to 450Mbps.

TDMA proprietary protocol for better PtMP performance

TD-MAX is Tenda TDMA (Time Division Multiple Access) proprietary protocol to improve performance and capacity for wireless WISP outdoor application scenarios. In outdoor enviroment, the CPE use highly directional antennas to connect to the Basestation 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 Basestation experiences frequent collisions from stations transmitting simultaneously. As the network scales, these collisions build up exponentially, increasing latency and lowering throughput. With TD-MAX, 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

CPE Assistant-Centralized Management Platform

B9 equips with centralized management software that helps users easily manage all the devices in their network from a single PC - CPE Assistant. Functions such as device discovery, status monitoring, firmware upgrading, and network maintenance can be managed by CPE Assistant.

Professional Outdoor Design

B9 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.

Plug and Play Integration

B9 can be plug into mount bracket on the antenna directly and provide greater performance after RF cable connected to RF connector.

Specification

Hardware Specifications

Product		
Model	Standards	IEEE 802.3, IEEE 802.3u
Dimensions / Ports	194.7*88*42mm / Mesh5: 2 x 10/100/1000Mbps Ethernet ports -1 WAN/LAN port -1 LAN port	projects a stronger WiFi signal in a direction where your devices are located.
Deploy / Antennas		Mesh5: 2 x 3 dBi built-in omni-directional antennas
Application Scenarios / Button	PtP, PtMP for rural wireless connectivity and CCTV surveillance	Mesh5: 1 x Reset button

directly at the target.

Hardware Features

Frequency / Power		Input: 100 - 240 V, 50/60 Hz, 0.6 A Output: DC 12 V == 1 A
Compliant Standards / Input Standards	IEEE 802.11a/n/ac / Mesh System/Signal	
Maximum		
Interfaces / Dimensions		Mesh5: 91 mm x 91 mm x 93 mm (3.58 in. x 3.58 in. x 3.66 in.)
		1*10/100/1000Mbps Ethernet Port

Wireless Features

Antennas / Wireless Standards	2*RP-SMA Connector	5GHz: IEEE 802.11ac/a/n 2.4GHz: IEEE 802.11b/g/n
Antennas Gain	/	
Antennas Beamwidth / Data Rate	/	5 GHz 867 Mbps 2.4 GHz 300 Mbps
Reset Button / Frequency	1	Simultaneous dual band 2.4 GHz & 5 GHz
Power Consumption / SSID Broadcast	8.5W	
Waterproof Level	IP65	
LED indicator / Wireless Security	PoE/LAN,LED1,LED2,LED3	WPA/WPA2-PSK
Power Method	24V0.5A Passive PoE	
Wireless Roaming		Compliant with IEEE 802.11k/v/r
Lightning Protection	6000V	
Passive PoE	Passive power over ethernet via PoE/LAN (+4,5pins; -7,8pins) Voltage range: 21-25V DC	
Internet Connection Type		PPPoE, Dynamic IP, Static IP, Bridge Mode
Receiver sensitivity	MCS0: -96dbm MCS7: -72dbm	DHCP Server

Supports up to 80 devices

Combining the 1 GHz main chip with MU-MIMO technology, the nova MW5C communicates simultaneously with multiple devices.

Software Features

TDMA / Compatible / Virtual Server	100 Mbps	Support（TD-MAX technology） Port Forwarding >100 Mbps	>100 Mbps	≥200 Mbps	≥500 Mbps
Operating mode		AP/Station/WISP/P2MP/WDS Repeater/Router			
Coverage Area / Enable/Disable Wireless Radio / Firewall	up to 3500 sq.ft	up to 3500 sq.ft UDP flood attack defense TCP flood attack defense	up to 3500 sq.ft	up to 6000 sq.ft	up to 6000 sq.ft
SSID Hidden		Support			
Wireless Client Isolation / DNS / Connected Devices	40 devices	Support Manually setting up DNS server 60 devices	80 devices	90 devices	120 devices
SSID Isolation		Support			
		L2TP pass through			

Purchase Guide

Automatic networking makes

Specification

Software Features	
Channel Bandwidth	20/40/80MHz
Client Shift	Support
Wireless Access Control	Support
Weak Signal Client Limitation	Support
Transmission Power	Maximum 400mW(26dBm) 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 Assistant

Specification

Others	
Package Contents	1*5GHz 11AC 867Mbps Gigabit Outdoor Basestation 1*Passive PoE Power Adapter 1*Power Cord 1*Quick Installation Guide
Operating Temperature	-30℃ ~ 60℃
Storage Temperature	-40℃ ~ 70℃
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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