Tenda

All for better networking.

B6
5GHz 11n 300Mbps Basestation

Link More

B6

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What it does

B6 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 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 11n 300Mbps

* 2 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 Injector

Product Features

TD-MAX-TendaTDMA proprietary protocol

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.

Super channel-Extended Frequenc

B6 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 spectru.

Product Features

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

B6 applys 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 applycation 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 interferrence

B6 provides Channel Shift feature to offset the central frequency 5MHz upper. It can avoid interference from nearby AP and deliver higher throughput.
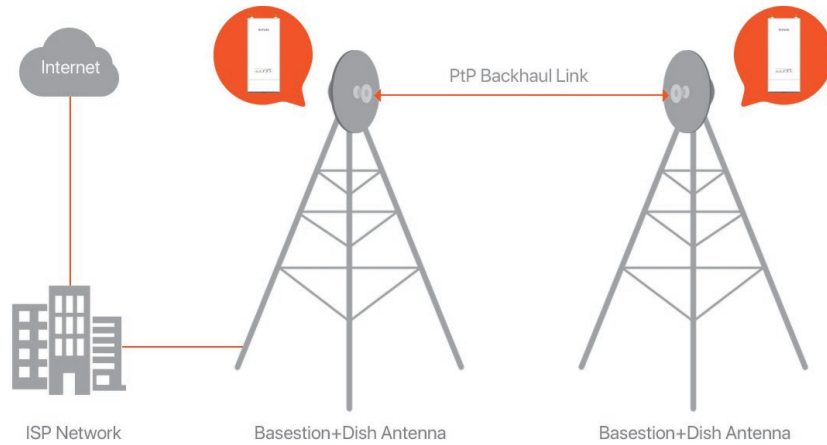
CPE Assistant-Centralized Management Platform

B6 equips with centralized management software that helps users easily manage all the devices in their network from a single PC - CPE Assistant. Functions like device discovery, status monitoring, firmware upgrading, and network maintenance can be managed using CPE Assistant.

Professional Outdoor Design

B6 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
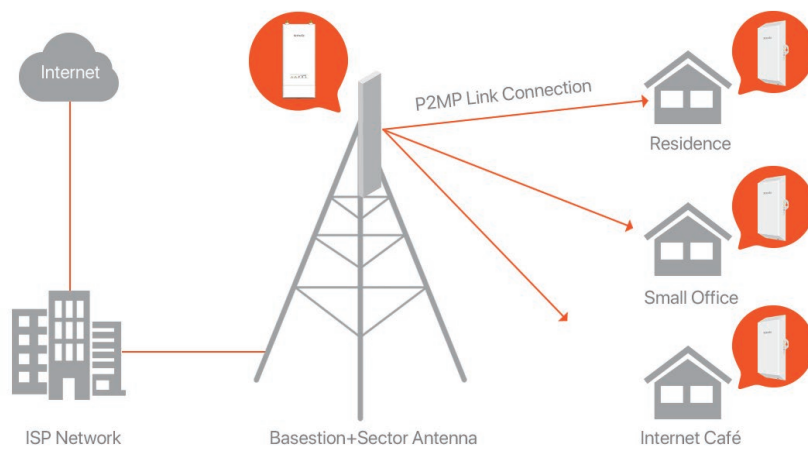
Application Scenarios

PtP Backhaul Connection

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

Internet

PtP Backhaul Link

ISP Network   Basestion+Dish Antenna   Basestion+Dish Antenna

P2MP Link

Pair with Sector antenna, B6 work as AP mode to deliver wirelss signal to share Internet to local resident,small office.

Internet

P2MP Link Connection

Residence

Small Office

Internet Café

ISP Network   Basestion+Sector Antenna

Specification

Product Information

Model	B6
Dimensions	194.7*83*42.1mm
Deployment	Pole Mount
Application Scenarios	PtP, PtMP for rural wireless connectivity and CCTV surveillance

Hardware Features

Frequency Range	5GHz
Compliant Standards	IEEE 802.11a/n
Private TDMA Protocol	TD-MAX
Maximum Wireless Rate	300Mbps
Interfaces	1*10/100Mbps Ethernet Port
Antennas	2*RP-SMA
Reset Button	1
GND	1
Power Consumption	8.5W
Waterproof Level	IP65
LED indicator	PoE/LAN,LED1,LED2,LED3
Power Method	24V0.5A Passive PoE
Lightning Protection	6000V
Passive PoE	Passive power over ethenet 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
Weak Signal Client Limitation	Support
Transmission Power	Adjustable power by 1dBm

Specification

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
Others	
Package Contents	1*5GHz 11N 300Mbps Basestation 1*PoE Power Adapter 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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