

2.4GHz/5GHz 300Mbps Outdoor Wireless Base Station

WBS210/WBS510 Datasheet

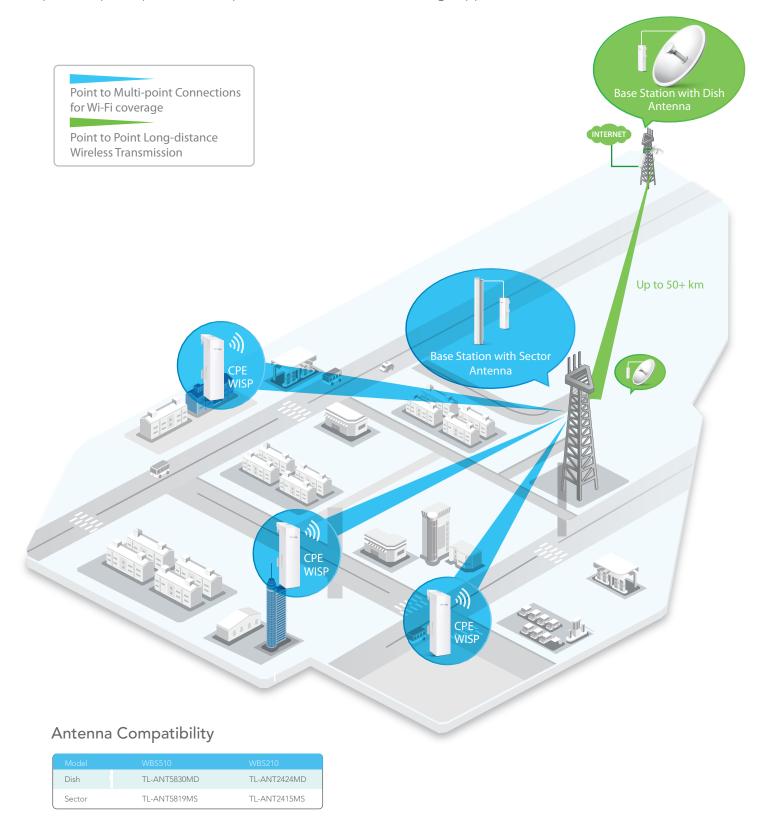
Highlights

- Broad operating frequency channels ensure less wireless interference
- Wireless N speed up to 300Mbps
- Selectable bandwidth of 5/10/20/40MHz
- Adjustable transmission power from 1 to 27dBm/500mW
- 2 RP-SMA connectors for external MIMO antenna
- Work with TP-LINK dish antenna for long-distance wireless data transfer up to 50km+
- 1 10/100Mbps Ethernet port for passive PoE and 1 10/100Mbps Ethernet port for extended applications
- TP-LINK Pharos MAXtream (Time-Division-Multiple-Access) technology improves product throughput, capacity and latency performance, ideal for PtMP applications
- Centralized Management System Pharos Control



Typical Applications

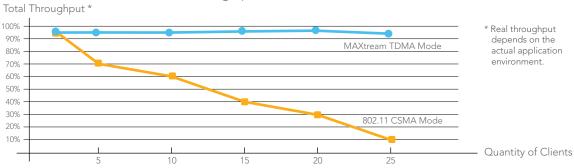
TP-LINK's Outdoor Wireless Base Station is dedicated to cost effective solutions for outdoor wireless networking applications. With its centralized management application, it is flexible and ideal for point-to-point, point-to-multipoint and outdoor Wi-Fi coverage applications.



TP-LINK MAXtream TDMA Technology

As network scale increases, wireless competition and collisions among CPEs will be so fierce that the real throughput of the network will drop, resulting in a serious impact on end-user experience, to mitigate these effects, TP-LINK's Pharos series uses MAXtream TDMA Technology.





Pharos Control - Centralized Management System

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



PharOS

User-friendly web-based management system allows professionals to do more specific configurations.



Specifications

	& Performance	WPC210	W/DCF10
Model		WBS210	WBS510
Name		2.4GHz 300Mbps Outdoor Wireless	5GHz 300Mbps Outdoor Wireless
		Base Station	Base Station
	Processor	Qualcomm Atheros enterprise AR9350B 560MHz CPU, MIPS 74Kc	
	Memory	64MB DDR2 RAM, 8MB Flash	
		1 10/100Mbps Shielded Ethernet Port (LAN0/POE)	
	Interfaces	1 10/100Mbps Shielded Ethernet Port (LAN1)	
		2 RP-SMA	
		1 Grounding Terminal	
Hardware Features		1 Reset Button	
reatures	Power Supply	Passive Power over Ethernet via LANO (+4,5pins; -7,8pins)	
	Dimensions(L x W x H)	Voltage range: 16-27VDC	
	Dimensions(L x vv x H)	189*75*32 mm	
	Protection	15KV ESD Protection	
		6KV Lightning Protection	
	Enclosure	Material: Outdoor ASA stabilized plastic Weatherproof: IP65 water and dust proof design	
	Wireless Standards	IEEE 802.11b/g/n	IEEE 802.11a/n
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	Proprietary Protocol	TDMA Mode (with Pharos MAXtream	·
	Frequency	2.4~2.483GHz	5.15~5.85GHz
Wireless Features	Wireless Speed	Up to 300Mbps (40MHz,Dynamic)	
		Up to 144.4Mbps (20MHz,Dynamic) Up to 72.2Mbps (10MHz,Dynamic)	
		Up to 36.1Mbps (5MHz,Dynamic)	
	Maximum Transmit		
	Power ¹	27dBm/500mW (Adjustable power by 1dBm)	
	Operation Modes	AP / Client / Bridge / Repeater / AP Router / AP Client Router (WISP Client)	
	Network Configurations	WAN: Static/Dynamic/PPPoE/L2TP/PPTP	
		LAN: Static/Dynamic/DHCP	
		Forwarding: DMZ/ALG/UPnP/Virtual Server/Port Trigger	
		Security: SPI Firewall/ Ping Forbidden/VPN/DoS Protection Access Control	
		Static Routing Bandwidth Control	
Software Features		IP & MAC Binding	
		Pharos MAXtream TDMA Technology	,
	Wireless Configurations	WBS210: 802.11b/g/n Modes; WBS5	
		Selectable Channel Width: 5/10/20/40MHz	
		Auto Channel Selection	
		Transmit Power Control	
		Dynamic Frequency Selection(DFS)	
		WDS Enable/Disable	
		Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption	

 $^{1\ {\}rm Maximum}\ {\rm transmit}\ {\rm power}\ {\rm is}\ {\rm limited}\ {\rm by}\ {\rm local}\ {\rm regulatory}\ {\rm settings}$

Model		WBS210	WBS510
Name		2.4GHz 300Mbps Outdoor Wireless	5GHz 300Mbps Outdoor Wireless
		Base Station	Base Station
Software Features	Wireless Configurations	64/128/152-bit WEP Encryption SSID Broadcast Enable/Disable Multi-SSID with VLAN Tagging (AP mode only) Distance/ACK Timeout Setting Wireless MAC Address Filter Wireless Advanced: Beacon Intevel/RTS Threshold/Fragmentation Threshold/DTIM Intevel/AF Isolation/Short GI/Wi-Fi Multimedia	
	Management	Discovery and Remote Management via Pharos Control application HTTP/HTTPS Web-based management System Log SNMP Agent (v2c) Ping Watch Dog Dynamic DDNS SSH Server	
	System Tools	Indicators: Signal Strength/Noise/Transmit CCQ/CPU/Memory Monitors: Throughput/Stations/Interfaces/ARP/Routes/WAN/DHCP Spectrum Analysis Speed Test Ping Traceroute	
	System-level Optimizations	WBS210: 802.11b/g/n Tx beamforming technology WBS510: 802.11a/n Tx beamforming technology IGMP Snooping/Proxy for multicast applications Hardware watch dog	
Others	Certification	CE, FCC, RoHS,IP65	
	Package Contents	Outdoor Wireless Base Station 24V 1A Passive PoE Adapter Pole Mounting Kit AC Power Cord Quick Installation Guide	
	System Requirements	Microsoft Windows 98SE, NT, 2000, XP, VistaTM or Windows 8, Windows MAC OS, NetWare, UNIX or Linux. Note: We recommend you to use one of following Web browsers for better experience: Google Chrome, Safari, Firefox. IE browsers are not recommended.	
	Environment	Operating Temperature: -30°C~70°C (-22°F~158°F) Storage Temperature: -40°C~70°C (-40°F~158°F) Operating Humidity: 10%~90% non-condensing Storage Humidity: 5%~95% non-condensing	

Features & Performance				
	Dimensions(WxDxH)	110*57*33.5mm		
	Input Voltage	100VAC-240VAC@50Hz-60Hz		
	Input Current	0.8A Max @ 100VAC		
	Output Voltage	24VDC (+4,5pins; -7,8pins)		
POE	Output Current	1.0A Max (Support up to 60m Power over Ethernet)		
Adapter	Efficiency	>80%		
Features	Interfaces	1 AC Jack with Earth Ground		
		1 10/100/1000Mbps Shielded Ethernet Port (Power + Data)		
		1 10/100Mbps Shielded Ethernet Port (Data)		
	Power LED	0~0.8A: Green		
		0.8A~1.0A: Red		
	Certifications	CE/FCC/UL/IC/GS/PSB/C-tick/SAA/S-Mar		



Details:http://www.tplink.com/en/Support German/Austrian/Swiss users are not included

www.tp-link.com

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