

2.4GHz/5GHz 300Mbps Outdoor CPE

Pharos CPE Series Datasheet

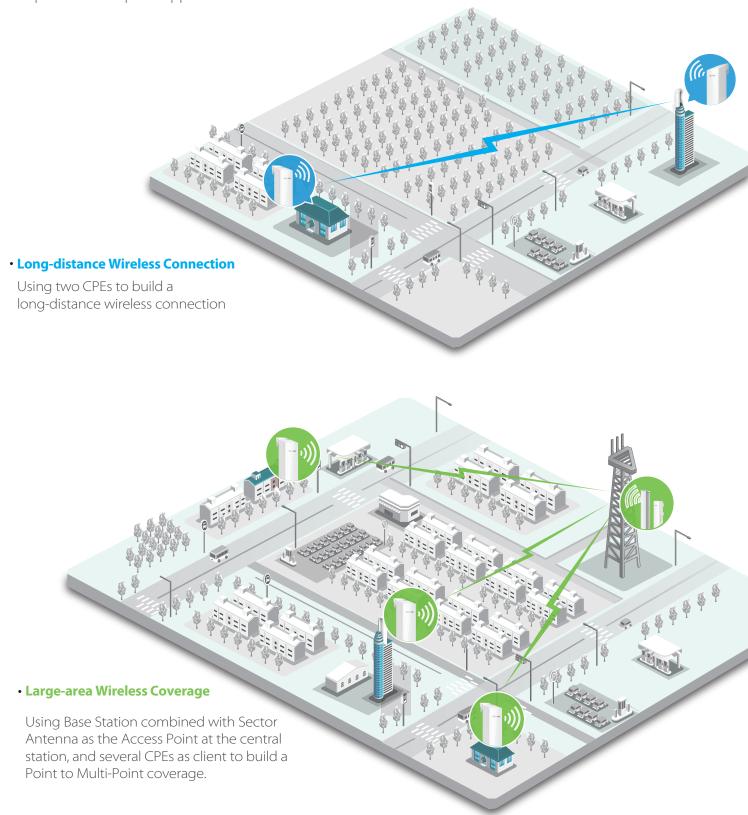
Highlights

- Wireless N speed up to 300Mbps
- Selectable bandwidth of 5/10/20/40MHz
- Adjustable transmission power by 1dBm
- Broad operating frequency channels ensure less wireless interference
- Built-in 2×2 dual-polarized directional MIMO antenna
- Passive PoE Adapter supports up to 60 meter (200 feet) Power over Ethernet deployment
- 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

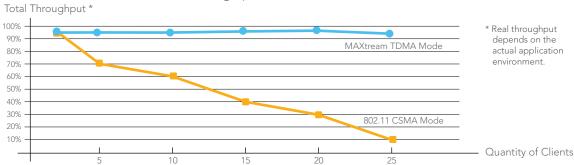
TP-LINK's Outdoor CPE is dedicated to cost effective solutions for outdoor wireless networking applications. With its centralized management application, it is flexible and ideal for point-to-point and point-to-multipoint applications.



TP-LINK MAXtream TDMA Technology

As network scale increases, wireless competition and collisions among outdoor devices 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.





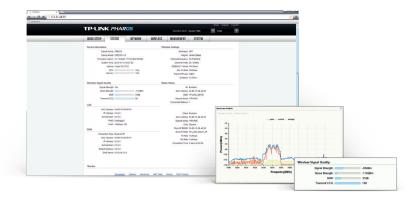
Pharos Control – Centralized Management System

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

Features	& Performance		
Model		CPE210 / CPE220	CPE510 / CPE520
Name		2.4GHz 300Mbps 9dBi /12dBi	5GHz 300Mbps 13dBi/16dBi
		Outdoor CPE	Outdoor CPE
Hardware Features	Processor	Qualcomm Enterprise 560MHz CPU, MIPS 74Kc	
	Memory	64MB DDR2 RAM, 8MB Flash	
	Antenna Gain	CPE210: 9dBi	CPE510: 13dBi
		CPE220: 12dBi	CPE520: 16dBi
	Interfaces	1 10/100Mbps Shielded Ethernet Poi 1 10/100Mbps Shielded Ethernet Poi	
		1 Grounding Terminal 1 Reset Button	
	Power Supply	Passive Power over Ethernet via LANO (+4,5pins; -7,8pins) Voltage range: 16-27VDC	
	Dimensions (L x W x H)	224×79×60 mm (CPE210, CPE510) / 276×79×60 mm (CPE220, CPE520)	
	Protection	15KV ESD Protection 6KV Lightning Protection	
	Enclosure	Material: Outdoor ASA stabilized plastic Weatherproof: IPX5 water and dust proof design	
	Wireless Standards	IEEE 802.11b/g/n	IEEE 802.11a/n
	Proprietary Protocol	TDMA Mode (with Pharos MAXtream	n enabled)
	Frequency ¹	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 ²	CPE210: 27dBm/500mW (Adjustable power by 1dBm) CPE220: 30dBm/1000mW (Adjustable power by 1dBm) CPE510: 23dBm/200mW (Adjustable power by 1dBm) CPE520: 27dBm/500mW (Adjustable power by 1dBm)	
	Operation Modes	AP / Client / Bridge / Repeater / AP Router / AP Client Router (WISP Client)	
Software Features	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 IP & MAC Binding	
	Wireless Configurations	Pharos MAXtream TDMA Technology 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 Available operation frequency may vary depending on the limitaion of the countries or regions in which the device is used. ² Maximum transmit power is limited by local regulatory settings

Model		CPE210 / CPE220	CPE510 / CPE520
Name		2.4GHz 300Mbps 9dBi /12dBi Outdoor CPE	5GHz 300Mbps 13dBi /16dBi Outdoor CPE
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/AP 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	IGMP Snooping/Proxy for multicast applications	
	Optimizations	Hardware watch dog	
Others	Certification	CE, FCC, RoHS,IPX5	
	Package Contents	Outdoor CPE 24V 1A Passive PoE Adapter Pole Mounting Strap AC Power Cord Quick Installation Guide	
	System Requirements	Microsoft Windows 98SE, NT, 2000, XP, VistaTM or Windows 10, Windows Windows 7, 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 10/100/1000Mbps 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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