

2.4GHz/5GHz 300Mbps Outdoor CPE

Pharos CPE Series Datasheet

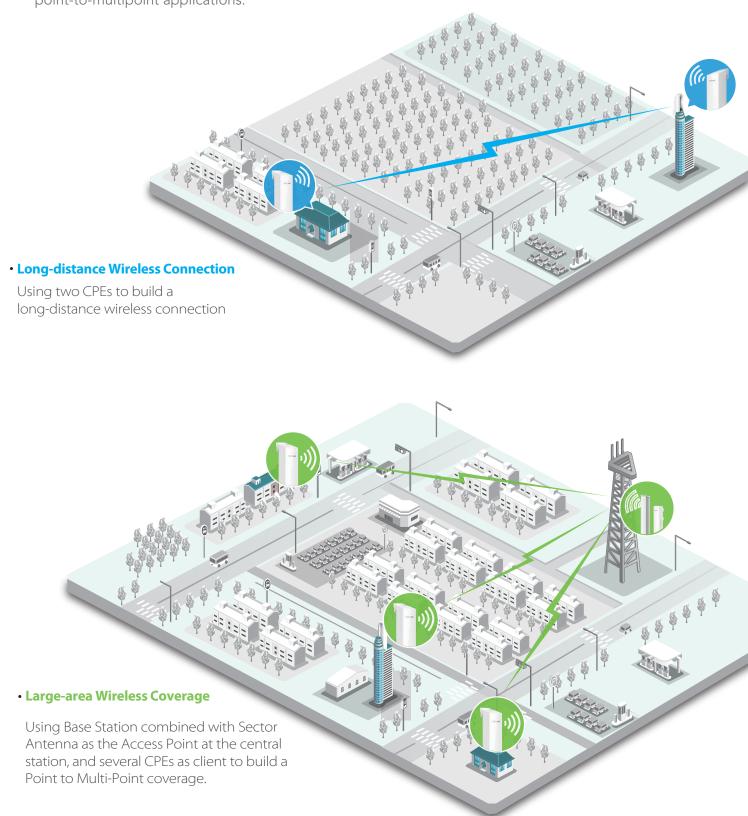
Highlights

- 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

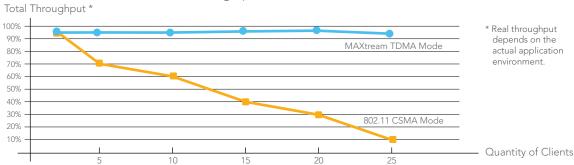
TP-LINK's Outdoor CPE is dedicated to cost effective solutions for outdoor wireless networking applications. With its centralized management application, it is flexible and ideal for point-to-point and point-to-multipoint applications.



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
	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 Port (LAN0/POE)	
		1 10/100Mbps Shielded Ethernet Port (LAN1, Passive PoE Passthrough)	
Hardware		1 Grounding Terminal 1 Reset Button	
Features		Passive Power over Ethernet via LANO (+4,5pins; -7,8pins)	
	Power Supply	Voltage range: 16-27VDC	
	Dimensions (L x W x H)	224×79×60 mm (CPE210, CPE510) / 276×79×60 mm (CPE220, CPE520)	
	Difficiations (EX VV X 11)	15KV ESD Protection	
	Protection	6KV Lightning Protection	
		Material: Outdoor ASA stabilized plastic	
	Enclosure	Weatherproof: IPX5 water and dust proof design	
	Wireless Standards	IEEE 802.11b/g/n	IEEE 802.11a/n
	Proprietary Protocol	TDMA Mode (with Pharos MAXtrean	n enabled)
	Frequency ¹	2.4~2.483GHz	5.15~5.85GHz
	Wireless Speed	Up to 300Mbps (40MHz,Dynamic)	
Wireless Features		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	
		CPE220: 30dBm/1000mW (Adjustable power by 1dBm)	
		CPE510: 23dBm/200mW (Adjustable power by 1dBm)	
	O M. I	CPE520: 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/FLAN: Static/Dynamic/DHCP	2717
		Forwarding: DMZ/ALG/UPnP/Virtual Server/Port Trigger	
		Security: SPI Firewall/ Ping Forbidden/VPN/DoS Protection	
		Access Control	
		Static Routing	
Software		Bandwidth Control	
Features		IP & MAC Binding	
	Wireless Configurations	Pharos MAXtream TDMA Technolog	у
		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	
		Security. VVFA/VVFAZ, VVFA-FSK/VVFA	AZ-I SK (AES/ I KIF) 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

Features & Performance					
Model		CPE210 / CPE220	CPE510 / CPE520		
Name		2.4GHz 300Mbps 9dBi /12dBi	5GHz 300Mbps 13dBi /16dBi		
		Outdoor CPE	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			
	Certification	CE, FCC, RoHS,IPX5			
Others	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 8, 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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