ComX Computers
Product Specification Sheet

TP-CPE220

TP-link CPE220 2.4GHz 300 Mbps 12dBi outdoor CPE

Product Overview

TP-link CPE220 2.4GHz 300 Mbps 12dBi outdoor CPE, Qualcomm atheros 560MHz CPU, 64MB DDR2 RAM, 8MB Flash, 1x 10/100 Mbps shielded Ethernet Port (Passive PoE in), 1x 10/100 Mbps shielded Ethernet Port (Passive PoE passthrough), 1x grounding Terminal, Built-in 12dBi 2x2 dual-polarized directional antenna, IEEE 802.11b/g/n Wireless standards









Specifications

Overview:

2.4GHz 300Mbps 12dBi Outdoor CPE CPE220

- Built-in 12dBi 2x2 dual-polarized directional MIMO antenna
- Adjustable transmission power from 0 to 30dBm/1000mw
- System-level optimizations for more than 13km long range wireless transmission
- TP-LINK Pharos MAXtream TDMA (Time-Division-Multiple-Access) technology improves product performance in throughput, capacity and latency performance, ideal for PTMP applications
- Centralized Management System - Pharos Control
- AP / Client / Bridge / Repeater / AP Router / AP Client Router (WISP) operation modes
- Passive PoE Adapter supports up to 60 meter (200 feet) Power over Ethernet deployment and allows the device to be reset remotely

Features:

TP-LINKs 2.4GHz 300Mbps 12dBi Outdoor CPE, the CPE220 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. Professional performance, coupled with user-friendly design, makes CPE220 an ideal choice for both business and home users.

Enterprise Hardware
With Qualcomm Atheros enterprise level chipsets, high gain antennas and high quality material, specially designed enclosure, and PoE power supply, CPE220 is specially designed for outdoor use and can operate flawlessly in almost any climate, with operating temperatures ranging from -40degC to +70degC.

Advanced Antenna System
Built-in High Gain Dual-Polarized Antenna
Dedicated metal reflector ensures higher gain
and lower noise interference

13km+ Wireless Data Transmission
Specially designed for outdoor uses, ideal for long distance wireless data transmission over 13km+, tested in the field.

TP-LINK MAXtream TDMA Technology
As network scale increases, wireless competition and collisions among CPEs and base stations will be so enormous that the real throughput of the network will drop, resulting in a serious impact on end-user experience. To mitigate these effects, the CPE220 uses MAXtream TDMA Technology.

Pharos Control - Centralized Management System
CPE220 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:

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Specifications	
Product Code	TP-CPE220
HARDWARE FEATURES	
Processor	Qualcomm Atheros 560MHz CPU, MIPS 74Kc
Memory	64MB DDR2 RAM, 8MB Flash
Interface	1 10/100Mbps Shielded Ethernet Port (LAN0, Passive PoE in)
	1 10/100Mbps Shielded Ethernet Port (LAN1, Passive PoE Passthrough)
	1 Grounding Terminal
	1 Reset Button

Power Supply	Passive Power over Ethernet via LAN0 (+4, 5pins, -7, 8pins)
	Voltage range: 16-27VDC
Power Consumption	10.8 Watts Max
	Note: When deployed using Passive PoE, the power drawn from the power source will
	be higher by some amount depending on the length of the connecting cable.
Dimensions (W x D x H)	11x3.1x2.1 inch (276x79x60 mm)
Antenna Type	Built-in 12dBi 2x2 Dual-polarized Directional Antenna
	Beam Width: 60 degrees (H-Plane) / 30 degrees (E-Plane)
	Note: For more details, please refer to datasheet
Protection	15KV ESD Protection
	6KV Lightning Protection
Enclosure	Outdoor ASA stabilized plastic material
	IPX5 waterproof Certification
WIRELESS FEATURES	
Wireless Standards	IEEE 802.11b/g/n (with Pharos MAXtream disabled)
Proprietary Protocol	TDMA Mode (with Pharos MAXtream enabled)
Wireless Speeds	Up to 300Mbps (40MHz, Dynamic)
	Up to 144.4Mbps (20MHz, Dynamic)
	Up to 72.2Mbps (10MHz, Dynamic)
	Up to 36.1Mbps (5MHz, Dynamic)
Frequency	2.4~2.483GHz
	Note: Available operating frequency may vary depending on the limitations
	of the countries or regions in which the device is used.
Transmission Power	30dBm/1000mw (Adjustable power by 1dBm)
	Note: Maximum transmission power may vary across different channels depending
	on the limitations of the countries or regions in which the device is used.
SOFTWARE FEATURES	

Wireless Configurations	Pharos MAXtream TDMA Technology
	802.11b/g/n Modes
	Selectable Channel Width: 5/10/20/40MHz
	Automatic Channel Selection
	Transmission Power Control
	Dynamic Frequency Selection (DFS)
	WDS Enable/Disable
	Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) Encryption, 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 Interval/RTS Threshold/Fragmentation
	>Threshold/DTIM Interval/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	Wireless Signal Quality Indicators:
	Signal Strength/Noise/Transmit CCQ/CPU/Memory
	Monitors: Throughput / Stations / Interfaces / ARP / Routes / WAN / DHCP
	Spectrum Analyzer
	Speed Test
	Ping
	Traceroute
System-level Optimizations	Optimized IGMP Snooping/Proxy for multicast applications
	Hardware watch dog
POE ADAPTER FEATURES	
Dimensions(W x D x H)	85.8x43.9x31.9 mm
Interfaces	1 AC Jack with Earth Ground
	1 10/100Mbps/1000Mbps Shielded Ethernet Port (Power + Data)
	1 10/100Mbps/1000Mbps Shielded Ethernet Port (Data)

Button	Remote Reset Button
Power Status LEDs	Green
Input	100-240VAC, 50/60Hz
Input Voltage	100VA~240VAC @ 50Hz~60Hz
Input Current	0.4A Max @ 100VAC
Output	24VDC, 1.0A Max
	+4, 5pins, -7, 8pins. (Support up to 60m Power over Ethernet)
Output Voltage	24VDC(+4, 5pins, -7, 8pins)
Efficiency	>80%
Certifications	CE / FCC / UL / IC / GS / PSB / C-tick / SAA / S-Mark / KC-mark
OTHERS	
Certification	CE, FCC, RoHS, IPX5
Package Contents	Outdoor Wireless CPE
	24V 1A Passive PoE Adapter
	Pole Mounting Straps
	AC Power Cord
	Installation Guide
System Requirements	Microsoft Windows 98SE, NT, 2000, XP, Vista 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 an improved user
	experience: Google Chrome, Safari, and Firefox. IE browsers are not recommended.
Environment	Operating Temperature: -30 degreesC~70 degreesC (-22 degreesF~158 degreesF)
	Storage Temperature: -40 degreesC~70 degreesC (-40 degreesF~158 degreesF)
	Operating Humidity: 10%~90% non-condensing
	Storage Humidity: 5%~95% non-condensing

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:
https://www.comx-computers.co.za/TP-CPE220-TP-link-CPE220-2-4GHz-300-Mbps-12dBi-outdoor-CPE-p-256189.php

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