ComX Computers
Product Specification Sheet

TP CPE710

TP-Link CPE710 5GHz AC867 23 dBi outdoor CPE

Product Overview

TP-Link CPE710 5GHz AC867 23 dBi outdoor CPE, Qualcomm 750MHz CPU, 128 MB DDR2 RAM, 16 MB Flash, 1x 10/100/1000 Mbps shielded Ethernet Port (LAN/PoE), 23 dBi antenna gain











Specifications

Overview Summary:

Connect your business or home network over long distances with the TP-Link CPE710, a high-performance outdoor wireless bridge built for reliability in South Africa's diverse climate. Featuring a powerful 23 dBi directional antenna and AC867 speeds up to 5GHz, this device ensures stable point-to-point connections even through rain or strong wind thanks to its IP65 weatherproof design. Whether you need to link two buildings securely or extend your internet coverage across a large property, the CPE710 delivers fast data transfer with minimal latency.

Designed for easy setup and centralized management via Pharos Control, this CPE simplifies network administration while maintaining top-tier security against interference. Its robust construction protects internal components from lightning strikes and electrostatic discharge, ensuring consistent performance year-round. Don't let distance limit your connectivity; secure a reliable link today by buying now through our online store.

Performance tier: High-End Outdoor

Uses: Point-to-point bridging, long-range wireless backhaul, campus networking, remote site connectivity, ISP distribution

Overview:

The TP-Link CPE710 is a robust outdoor wireless solution engineered for high-speed, long-distance connectivity. Built around a powerful Qualcomm 750MHz CPU and supported by 128 MB of DDR2 RAM, this device delivers reliable AC867 Mbps performance on the 5GHz band. Its standout capability lies in the integrated 23 dBi directional antenna, which ensures precise signal transmission ideal for point-to-point links or extending coverage to remote locations. With an IP65 weatherproof rating and advanced protection against lightning and ESD, it is designed to withstand harsh environmental conditions while maintaining stable operation.

Description:

The TP-Link CPE710 (Part Number: TP CPE710) combines high-gain antenna technology with enterprise-grade processing power to deliver a seamless wireless experience. This unit supports up to 867 Mbps using the latest AC standards, making it perfect for bandwidth-intensive applications like HD streaming and real-time data transfer. The device includes Pharos Control software for centralized network management, allowing administrators to monitor multiple units from a single interface. Its compact, wind-resistant design with snap-lock assembly ensures quick deployment in various outdoor settings.

Features:

High-Speed Wireless Performance
Leveraging IEEE 802.11ac technology with 80 MHz channel bandwidth and 256 QAM modulation, the CPE710 achieves data rates up to 867 Mbps on the 5GHz frequency range. This performance is nearly three times faster than standard 802.11n connections, ensuring low latency and minimal interference even over long distances. The system supports dynamic channel widths of 20/40/80 MHz and includes features like Dynamic Frequency Selection (DFS) to adapt automatically to changing network conditions for optimal throughput.

Long-Range Directional Antenna
The device is equipped with a professional 23 dBi Cassegrain directional antenna paired with a metal reflector. This configuration provides exceptional beam directivity, focusing the signal precisely where it is needed to reduce latency and improve noise cancellation. With an azimuth beamwidth of 9 degrees and elevation beamwidth of 7 degrees, it minimizes interference from surrounding signals while maximizing range stability.

Durable Outdoor Construction
Built for reliability in extreme weather, the CPE710 features a rugged enclosure made from outdoor-stabilized PC plastic. The unit meets IP65 standards for water and dust resistance, ensuring consistent performance during rain or dusty conditions. It includes robust protection against electrical surges with 15 kV ESD protection and 6 kV lightning protection to safeguard the internal components.

- IP65 weatherproof enclosure
- 15 kV ESD and 6 kV lightning protection
- Wind-resistant structural design for high-altitude mounting

Flexible Installation and Power
Installation is streamlined with a compact, lightweight design that supports passive Power over Ethernet (PoE). The device operates on a voltage range of 16-27V DC via the LAN port, allowing for flexible placement without the need for local power outlets. Innovative snap-lock parts enable fast assembly, and the included pole mounting kits simplify deployment. The PoE adapter supports transmission distances up to 60 meters, offering significant flexibility in routing cables.

Centralized Network Management
Administrators can efficiently manage multiple CPE710 units using Pharos Control software or the intuitive PharOS web interface. This platform enables device discovery, status monitoring, firmware updates, and detailed network configuration from a single PC. Additional management tools include SNMP agent support, system logs, ping watchdogs, and dynamic DDNS for remote access.

Technical Specifications:

The CPE710 is powered by a Qualcomm 750 MHz MIPS processor with 128 MB DDR2 RAM and 16 MB Flash memory. It features one shielded Gigabit Ethernet port supporting LAN/PoE, along with a reset button for quick recovery. Wireless configurations allow for selectable channel widths, transmit power control, and various security protocols including WPA/WPA2 encryption.

- 5GHz AC867 Mbps wireless data rate
- 23 dBi directional 2x2 MIMO antenna
- Qualcomm 750 MHz CPU with 128 MB DDR2 RAM and 16 MB Flash
- 1x 10/100/1000 Mbps shielded Ethernet Port (LAN/PoE)
- Operating temperature range from -40degrees C to 70degreesC

What's in the box
The package includes all necessary components for immediate deployment. Each unit comes with the outdoor wireless CPE device, a 24V 0.5A passive PoE adapter, pole mounting kits for secure installation, an AC power cord, and a comprehensive installation guide.

- Outdoor Wireless CPE
- 24V 0.5A Passive PoE Adapter
- Pole Mounting Kits
- AC Power Cord
- Installation Guide

The system supports a wide range of operating environments, including temperatures between -40degrees C and 70degrees C with humidity levels up to 95% non-condensing during storage. It is compatible with various operating systems including Windows, macOS, Linux, and UNIX, and works best with modern web browsers like Google Chrome, Safari, or Firefox.

Specifications:

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Specifications	
Product Code	TP CPE710
HARDWARE FEATURES	
Processor	Qualcomm 750MHz CPU, MIPS 74Kc
Memory	128 MB DDR2 RAM, 16 MB Flash
Interface	1 10/100/1000 Mbps Shielded Ethernet Port (LAN/POE)
	1 Reset Button
Power Supply	Passive Power over Ethernet via LAN (+4, 5pins, -7, 8pins)
	Voltage range: 16-27V DC
Dimensions (W x D x H)	366 x 280 x 207 mm (14.4 x 11.0 x 8.1 in.)
Antenna Gain	23 dBi
Antenna Beamwidth	9degrees (Azimuth)/7degrees (Elevation)
Protection	15 KV ESD Protection
	6 KV Lightning Protection
Enclosure	Material: Outdoor PC stabilized plastic
	Weatherproof: IP65 water and dust proof design
WIRELESS FEATURES	
Wireless Standards	IEEE 802.11a/n/ac
Wireless Speeds	Up to 867 Mbps (80 MHz, Dynamic)
	Up to 400 Mbps (40 MHz, Dynamic)
	Up to 173.4 Mbps (20 MHz, Dynamic)
Frequency	5.15-5.85 GHz
Transmit Power	Max. 27 dBm (Adjustable power by 1dBm)
SOFTWARE FEATURES	
Network Configuration	WAN: Static/ Dynamic/ PPPoE
	LAN: Static/ Dynamic/ DHCP
	Forwarding: ALG/ UPnP/ Virtual Server/ Port Trigger
	Security: SPI Firewall/ Ping Forbidden/ DoS Protection
	Access Control
	Static Routing
	Bandwidth Control
	IP & MAC Binding

Wireless Configurations	Selectable Channel Width: 20/40/80MHz
	Auto Channel Selection
	Transmit Power Control
	Dynamic Frequency Selection(DFS)
	WDS Enable/ Disable
	Security: WPA/WPA2, WPA-PSK/WPA2-PSK (AES/TKIP) 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
	Long Range PtP
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 Analyzer
	Speed Test
	Ping
	Traceroute
	Antenna Alignment
System-level Optimizations	Optimized IGMP Snooping / Proxy for multicast applications
POE ADAPTER FEATURES	
Dimensions(W x D x H)	85.8x43.9x29.7 mm
Interfaces	1 AC Jack with Earth Ground
	1x 10/100/1000 Mbps Shielded Ethernet Port (Power + Data)
	1x 10/100/1000 Mbps Shielded Ethernet Port (Data)
Button	Remote Reset Button
Power Status LEDs	Green
Input	100-240VAC, 50/60Hz

Output	24VDC, 0.5A Max
	+4, 5pins, -7, 8pins. (Support up to 60m Power over Ethernet)
Efficiency	>84.29%
Certifications	CE / FCC / UL / IC / GS / PSB / C-tick / SAA / S-Mark / KC-mark
OTHERS	
Certification	CE, FCC, RoHS, IP65, IC
Package Contents	Outdoor Wireless CPE
	24V 0.5A Passive PoE Adapter
	Pole Mounting Kits
	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: -40degreesC~70degreesC (-40degreesF~158degreesF)
	Storage Temperature: -40degreesC~70degreesC (-40degreesF~158degreesF)
	Operating Humidity: 10%~90% non-condensing
	Storage Humidity: 5%~95% non-condensing

FAQ

What wireless speeds can I expect from the TP-Link CPE710?
The device supports IEEE 802.11a/n/ac standards and delivers speeds up to 867 Mbps on an 80 MHz bandwidth, which is nearly three times faster than standard 802.11n connections.

Is the CPE710 suitable for extreme weather conditions?
Yes, it features a durable IP65-rated enclosure that is waterproof and dustproof, along with protection against 15 kV ESD and 6 kV lightning to ensure consistent performance in harsh environments.

How do I install the CPE710 for long-distance connections?
The unit uses passive PoE support via a single Ethernet cable and includes pole mounting kits, while its snap-lock design allows for quick assembly that can withstand high winds.

Can I manage multiple units remotely from one location?
Absolutely; the CPE710 works with Pharos Control software to allow centralized monitoring, configuration, and firmware updates for all devices through a single web interface.

What is included in the package for immediate setup?
The box contains the outdoor wireless CPE unit, a 24V passive PoE adapter, pole mounting kits, an AC power cord, and an installation guide to get your network running quickly.

Product Information Online

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

Product page: https://www.comx.co.za/TP-CPE710-TP-Link-CPE710-5GHz-AC867-23-dBi-outdoor-CPE-p-342198.php

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