

Code: TL-CPE510

## ACCESS POINT **TL-CPE510** 5 GHz TP-LINK

Net: **58.85 EUR** Gross: **58.85 EUR**



Outdoor access point TL-CPE510 High Power 5 GHz is dedicated for WISPs (Wireless Internet Service Provider) to wireless data transmission. The device is equipped with a high gain antenna, which, together with the electronic board, is put in a weather-resistant housing.

Thanks to the antenna with 13 dBi gain, high output power of the transmitter equal 27 dBm and high sensitivity of the receiver, the device allows to create long-range, stable and efficient wireless connections. Device allows to secure data transmission using the encryption protocols: WEP, WPA/WPA2 and WPA-PSK/WPA2-PSK (64/128/152 bits).

### SPECIFICATION

|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Frequency range:           | 5.15 GHz ... 5.85 GHz                                                                                                                                                                                                                                                                                                                                                                                                               |
| Antenna type:              | 2Tx 2Rx MIMO                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Gain :                     | 13 dBi                                                                                                                                                                                                                                                                                                                                                                                                                              |
| Polarization:              | vertical/horizontal                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Standards:                 | IEEE 802.11a, IEEE 802.11n                                                                                                                                                                                                                                                                                                                                                                                                          |
| Baud rates:                | <ul style="list-style-type: none"><li>• max. 300 Mbps @ 40 MHz (dynamic)</li><li>• max. 144.4 Mbps @ 20 MHz (dynamic)</li><li>• max. 72.2 Mbps @ 10 MHz (dynamic)</li><li>• max. 36.1 Mbps @ 5 MHz (dynamic)</li></ul>                                                                                                                                                                                                              |
| Receiver sensitivity:      | <ul style="list-style-type: none"><li>• IEEE 802.11a : 54 M : -75 dBm, 48 M : -76 dBm, 36 M : -83 dBm, 24 ... 6 M : -95 dBm</li><li>• IEEE 802.11n : MCS15 : -73 dBm, MCS14 : -74 dBm, MCS13 : -76 dBm, MCS12 : -80 dBm, MCS11 : -83 dBm, MCS10 : -88 dBm, MCS9 : -90 dBm, MCS8 : -93 dBm, MCS7 : -73 dBm, MCS6 : -74 dBm, MCS5 : -76 dBm, MCS4 : -80 dBm, MCS3 : -83 dBm, MCS2 : -88 dBm, MCS1 : -90 dBm, MCS0 : -93 dBm</li></ul> |
| Operation modes:           | AP, Client, Repeater, AP router, WISP                                                                                                                                                                                                                                                                                                                                                                                               |
| Protections:               | WEP 64/128/152-bit, WPA/WPA2, WPA-PSK/WPA2-PSK                                                                                                                                                                                                                                                                                                                                                                                      |
| LAN ports:                 | 1 x 10/100Mb LAN + PoE, Shielded                                                                                                                                                                                                                                                                                                                                                                                                    |
| Management interface:      | Web browser, PharOS Control application                                                                                                                                                                                                                                                                                                                                                                                             |
| Transmitter power:         | max. 26 dBm                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Horizontal beam width (H): | 45 °                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Vertical beam width (V):   | 45 °                                                                                                                                                                                                                                                                                                                                                                                                                                |

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|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Housing:                       | Outdoor, plastic (Weatherproof) - IPX5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Overvoltage protection:        | <ul style="list-style-type: none"> <li>• 15 kV ESD</li> <li>• 6 kV lightning</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Power supply PoE:              | ✓ (up to 60 m via UTP cable)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Power supply:                  | 24 V / 1 A Passive PoE (power adapter included)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Power consumption:             | 12 W                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Operation temp:                | -30 °C ... 70 °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Permissible relative humidity: | 10 % ... 90 %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Memory:                        | 64MB DDR2, 8MB Flash                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Processor:                     | Qualcomm 560MHz, MIPS 74Kc                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| Main features:                 | <ul style="list-style-type: none"> <li>• MIMO technology - increases the throughput of wireless link (multiple antennas transmission)</li> <li>• Adjustable transmission power</li> <li>• TP-LINK Pharos MAXtream TDMA Technology</li> <li>• Transmission range even up to 15 km</li> <li>• PharOS Control Central Management System</li> <li>• Support for tools Antenna Alignment, Distance Setting, Ping Watch Dog and Wireless Speed Test</li> <li>• Wireless signal quality indicators</li> <li>• Bandwidth : 5, 10, 20, 40 MHz</li> <li>• Multi-SSID</li> <li>• WDS</li> <li>• MAC addresses filtering</li> <li>• SSID hiding</li> <li>• DDNS</li> <li>• SSH</li> <li>• Watchdog built-in</li> <li>• RESET button</li> </ul> |
| Weight:                        | 0.32 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Dimensions:                    | 224 x 79 x 60 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Manufacturer / Brand:          | TP-LINK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| Guarantee:                     | <b>3 years</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |

## PRESENTATION

Mounting side view:



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Signal indicator:



Connectors view:



PoE Power Supply and Adapter:

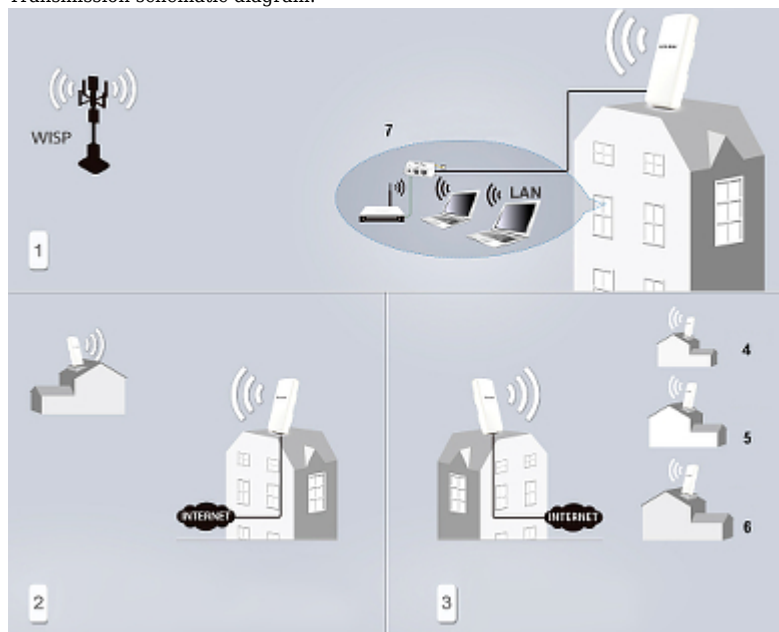




In the kit:



Transmission schematic diagram:



1. WISP client
2. Point-to-Point connection
3. Connection point-to-multipoint
4. 1 client
5. 2 client
6. 3 client
7. Local Area Network

## PACKAGE

|                                  |                    |
|----------------------------------|--------------------|
| Dimensions (L x W x H): 0x0x0 mm | Gross Weight: 0 kg |
|----------------------------------|--------------------|



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