

- Dual band Wi-Fi 802.11ac
- Power supply: PoE+ (IEEE 802.3at)
- Cluster operation without dedicated server (up to 64 devices)
- Seamless roaming
- Up-to-date authentication and encryption means

### Outdoor access point

WOP-2ac provides easy and secure access to high-performance wireless network that combines numerous features and services absolutely necessary for convenient network access in crowded areas. WOP-2ac is a proper solution for organization of wireless networks in various climatic conditions in a wide range of operating temperatures and high humidity (in parks, at factories, stadiums, etc.) and provides an optimal platform for network organization in suburban settlements and remote locations.

### Solution scalability

The WOP-2ac wireless access point is a new flexible solution that allows changing the network coverage in order to increase the quantity of serviced mobile devices. Due to high-performance hardware platform, scalability features and understandable interface, it is possible to set up wireless IT infrastructure simply and fast.

### Wireless connection

The WOP-2ac provides 867 Mbps (5 GHz) + 300 Mbps (2.4 GHz) data rate as it supports IEEE 802.11n/ac standards. Furthermore, the WOP-12ac supports MIMO technology and has omnidirectional antennas that makes it a universal solution for public network organization.

### Security

WOP-2ac provides secure connection due to the support of up-to-date authentication technologies. Particularly, it uses a dynamic key that is unique for each mobile device that interacts with WOP-2ac.



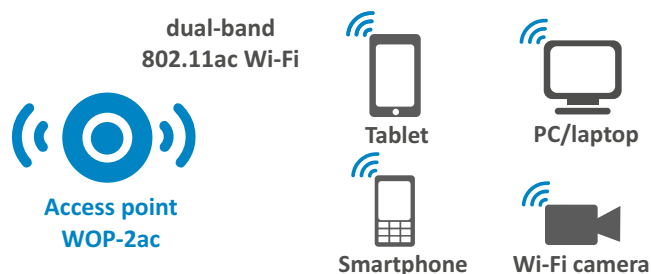
### Performance

To ensure a stable and uninterrupted operation, the device is equipped with high-performance chipsets providing high data processing rate.

### Power supply

The PoE+ technology makes it possible to install the equipment anywhere, regardless of the power supply location, reduce total cost by discarding power cables and perform the installation easier and faster.

### Application diagram



### Interfaces configuration

Name	RJ-45	SFP	Wi-Fi	N-type connectors for antennas
WOP-2ac	1x1G	–	802.11a/b/g/n/ac	4
WOP-2ac SFP	1x1G Combo		802.11a/b/g/n/ac	4
WOP-2ac GPON	–	1x1G	802.11a/b/g/n/ac	4

## Features and capabilities

### Interfaces

- 1 x Ethernet 10/100/1000BASE-T port (RJ-45)
- 1 x Ethernet 100/1000BASE-X port (SFP) — SFP is presented in a particular modification, specify when ordering
- 4 N-type (female) connectors for antennas (Omni, sector, panel, etc.)
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n
- Wi-Fi 5 GHz IEEE 802.11a/n/ac

### WLAN

- IEEE 802.11a/b/g/n/ac standards support
- Data aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Rx)
- WMM-based packet priorities and planning
- Dynamic frequency selection (DFS)
- Hidden SSID support
- 32 virtual access points
- External access point detection
- APSD
- WDS

### Network functions

- Automatic speed negotiation, duplex mode negotiation, and MDI/MDI-X switch-over
- VLAN support
- 802.1X authentication support
- DHCP client
- LLDP
- ACL
- IPv6

### Cluster mode operation

- Cluster creation with the capacity of up to 64 access points
- Load balancing for multiple access points
- Automatic synchronization of access point configurations in cluster
- Single Management IP—a single address for access point management in cluster
- Automatic frequency channel allocation for multiple access points
- Authentication via RADIUS server

### QoS features

- Packet priorities and planning based on profiles
- Bandwidth restriction for each SSID
- Modification of WMM parameters for each radio frequency interface

### Security

- Centralized authorization via RADIUS server (WPA Enterprise)
- WPA/WPA2 encryption
- Captive Portal support
- Email notifications on system events

### Wireless interface specifications

- Frequency range: 2400-2480 MHz, 5150-5850 MHz
- CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
- 2x2 MIMO

### Active channels

- 802.11b/g/n: 1-13 (2412-2472 MHz)<sup>1</sup>
- 802.11a/n/ac: 36-64 (5180-5320 MHz),  
100-144 (5500-5720 MHz),  
149-165 (5745-5825 MHz)<sup>1</sup>

### Data rate

- 802.11n: 300 Mbps
- 802.11ac: 867 Mbps

### Receiver sensitivity

- 2.4 GHz: up to -98 dBm
- 5 GHz: up to -94 dBm

### Maximum power of the transmitter

- 2.4 GHz: up to 18 dBm<sup>1</sup>
- 5 GHz: up to 21 dBm<sup>1</sup>

### Physical specifications

- Power consumption below 19.5 W
- 128 MB NAND Flash
- 256 MB RAM DDR3
- IP67 protection
- Power supply: PoE+ 48 V/54 V (IEEE 802.3at-2009)
- Operating temperature from -40 °C to +65 °C
- Dimensions (WxHxD): 200x227x48 mm

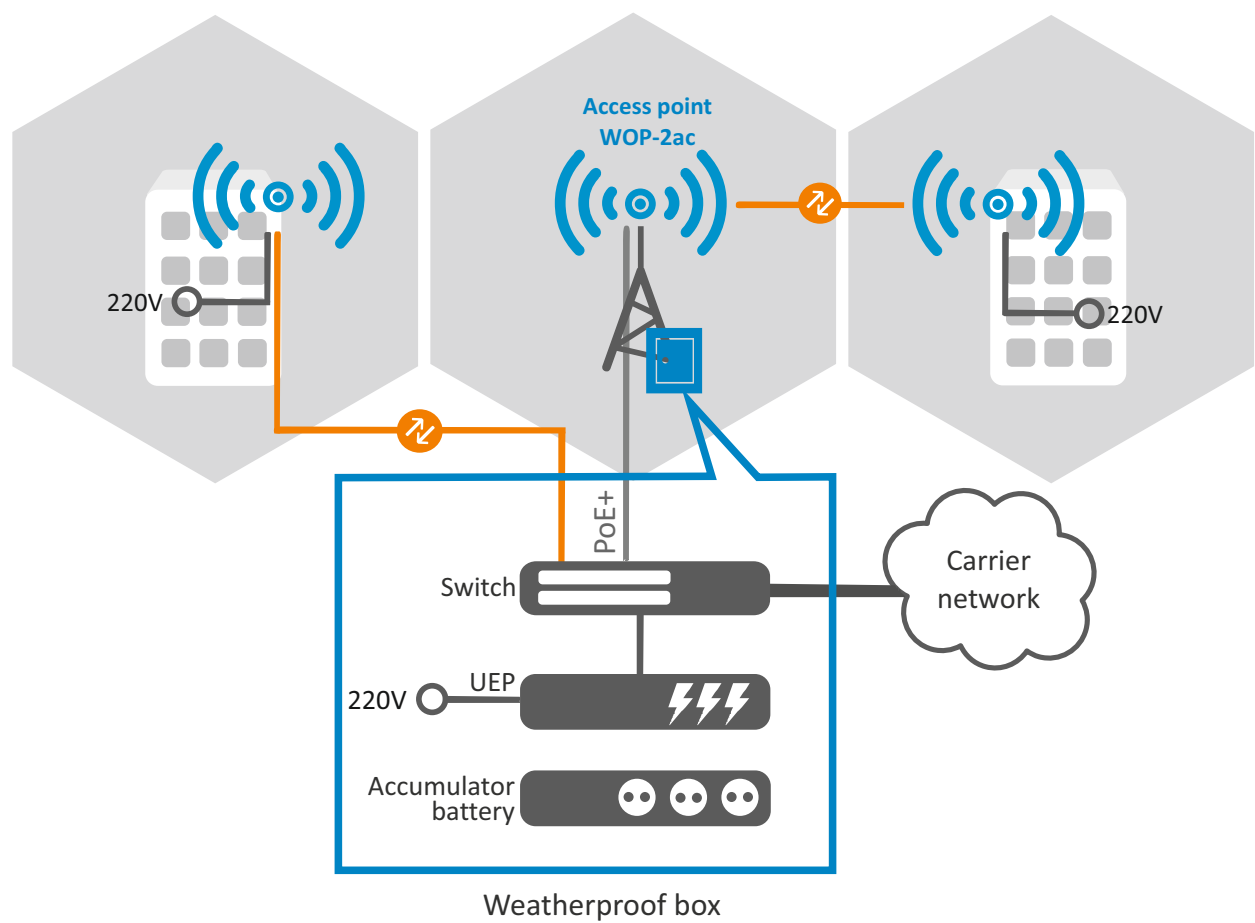
### Configuration

- Software updates and configuration via DHCP autoprovisioning
- Remote control via Telnet, SSH
- Web interface
- SNMP
- SoftWLC controller

<sup>1</sup>The number of channels and the value of the maximum output power will vary according to the rules of radio frequency regulation in your country.

<sup>2</sup>The maximum wireless data rate is defined according to IEEE 802.11n/ac standard. The real bandwidth can be different. Conditions of the network, environment, the amount of traffic, building materials and constructions and network service data can decrease the real bandwidth and influence the network coverage range.

Use case



Ordering information

Name	Description
WOP-2ac	WOP-2ac access point. Mounting kit.

Related products


- Omnidirectional antenna: 2.4 GHz (5 dBi); 5 GHz (6 dBi)
- Sector antenna: 2.4 GHz dual polarized antenna, 15 dBi;  
5 GHz dual polarized antenna, 18 dBi;
- High quality microwave cable for connection of external antennas to radio interfaces. Cable length is 1.5 m.
- Power injector PoE+

Related software

Wi-Fi controller	WLC feature. Software controller with built-in AAA solution and captive portal for one ELTEX access point; Airtune feature. Service for Radio Resource Management (RRM) for one ELTEX access point; WIDS feature. Service for wireless network intrusion prevention for one ELTEX access point.
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