**ELTEX**
Integrated networking solutions

— **Dual band access point with support for 802.11ac**
— **Radio interface with MIMO 2x2 support**
— **PoE power supply (IEEE 802.3af)**
— **Up-to-date authentication and encryption means**

## All-weather access point

The WOP-20L wireless access point provides easy and secure access to a high-performance wireless network that combines numerous features and services necessary for convenient network access in crowded areas.

With high speed, low latency, energy efficiency, increased bandwidth and extended range, new access points provide many additional services, compared to access points of the previous Wi-Fi standards.

The device is an indispensable solution for organizing a wireless network in various climatic conditions, in a wide range of operating temperatures and high humidity (parks, factories, stadiums, etc.), and is also an ideal platform for organizing communication in suburban settlements and remote locations.

## Scalability

WOP-20L is an up-to-date 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 easy-to-use interface, it is possible to set up IT infrastructure simply and fast.

## Wireless connection

Due to support for IEEE 802.11n/ac standards the WOP-20L access point provides up to 300 Mbps (at 2.4 GHz) and up to 867 Mbps (at 5 GHz) data rates.

The use of MIMO technology and omnidirectional antennas makes WOP-20L a universal solution for corporate networks construction.

## Security

Up-to-date authentication technologies are provided to ensure a secure connection. In particular, a dynamic key is used, which is unique for each subscriber device connected to WOP-20L.

## Performance

To ensure stable and uninterrupted operation of the device, high-performance processors are used, providing reliability and high data processing rates.

## Power

The PoE technology makes it possible to install equipment in any place, regardless of the power supply source location. That reduces total cost by discarding power cables and makes installation easier and faster.

## Application diagram

dual-band
802.11ac Wi-Fi

**WOP-20L
access point**

Tablet

PC/Laptop

Smartphone

Wi-Fi camera
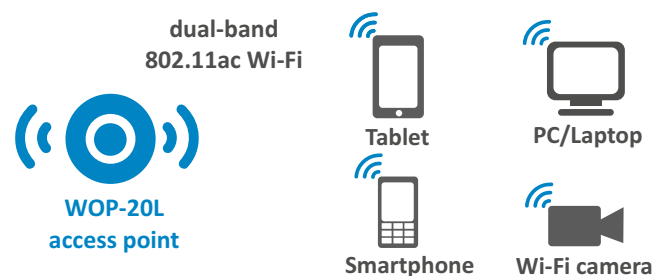
## Interfaces configuration

| Ethernet | Wi-Fi | SMA connectors for antennas |
|---|---|---|
| 1×1G | 802.11a/b/g/n/ac | 4 |

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## Features and capabilities

### Interfaces
– 1 port of 10/100/1000BASE-T (RJ-45) with PoE support
– Wi-Fi 2.4 GHz IEEE 802.11b/g/n
– Wi-Fi 5 GHz IEEE 802.11a/n/ac
– 4 SMA connectors (female) for external antennas connection
  (Omni, sector, panel, etc.)

### WLAN capabilities
– Support for IEEE 802.11a/b/g/n/ac
– 802.11r/k/v roaming
– Data aggregation, including A-MPDU (Tx/Rx) and AMSDU (Rx)
– WMM-based packet priorities and planning
– Dynamic frequency selection (DFS)
– Support for hidden SSID
– 14 virtual access points
– External access points detection
– Spectrum analyzer
– WDS support
– APSD support

### Network features
– Automatic speed negotiation, duplex mode negotiation and
  MDI-MDI-X switch-over
– VLAN support (Access, Trunk, General)
– DHCP client
– GRE
– Transmission of subscriber traffic out of tunnels
– ACL
– NTP
– Syslog
– IPv6
– LLDP

### QoS functions
– Packet priorities and planning based on profiles
– Bandwidth limiting for each SSID

### Configuration
– Remote management via Telnet, SSH
– CLI
– NETCONF
– Web interface
– SNMP

### Security
– Centralized autorization via RADIUS server
  (802.1X WPA/WPA2 Enterprise)
– WPA/WPA2 encryption
– Captive Portal
– Authorization via RADIUS server when logging in to the
  device

### Wireless interface specifications
– Frequency range 2400–2483.5 MHz; 5150–5350 MHz,
  5470–5850 MHz
– BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
– Support for MIMO 2×2
– Bandwidth: 20, 40 MHz for 2.4 GHz;
  20, 40 and 80 MHz for 5 GHz

Operating channels[1]
– 802.11b/g/n: 1–13 (2401–2483 MHz)
– 802.11a/n/ac: 36–64 (5170–5330 MHz)
  100–144 (5490–5730 MHz)
  149–165 (5735–5835 MHz)

Data rate[2]
– 802.11n: up to 300 Mbps
– 802.11ac: up to 867 Mbps

Maximum power of the transmitter[1]
– 2.4 GHz: 18 dBM
– 5 GHz: 20 dBM

Receiver sensitivity
– 2.4 GHz: up to -91 dBM
– 5 GHz: up to -93 dBM

### Physical specifications
– Maximum power consumption no more than 12 W
– 128 MB SPI-NAND Flash
– 256 MB DDR3 RAM
– Power supply: PoE 48 V/56 V (IEEE 802.3af-2003)
– Operating temperature from -45 to +65 °C
– IP55 protection level
– Pole/wall mounting
– Dimensions (W × H × D): 125 × 236.5 × 50.4 mm
– Weight: 0.77 kg

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[1] 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.

[2] The maximum wireless data rate is defined according to IEEE 802.11 standards. 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. The environment can influence on the network coverage range.

## Application diagram
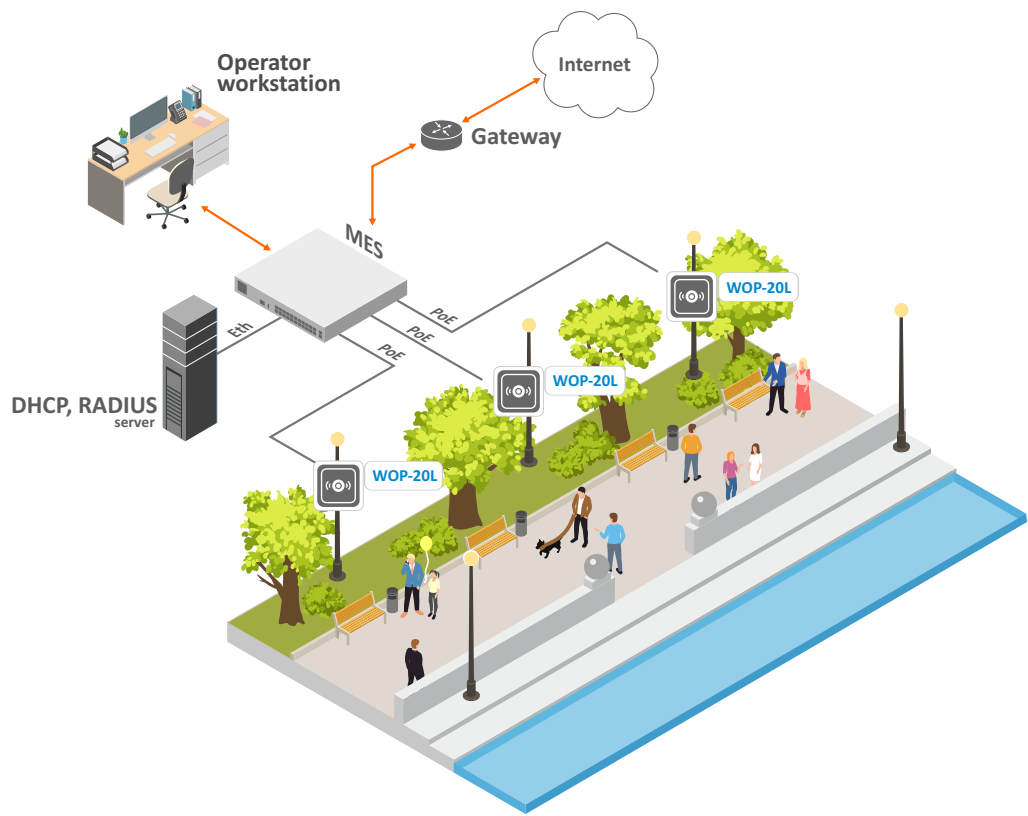


## Ordering information

| Name | Description |
|------|-------------|
| **WOP-20L** | WOP-20L wireless access point. Mounting kit. |

| Related products |
|------------------|
| Passive PoE 56 V power injector. |
| Omni antenna ALX19X-221051-00, 2400/5000/360/5, 1 × SMA. |
| Sector antenna: 2.4GHz dual-polarizing antenna; 5GHz dual-polarizing antenna. |

| Wi-Fi network controllers | |
|---------------------------|---|
| SoftWLC software controller | The Soft-WLC option. A soft controller with a built-in AAA solution and an authorization portal for a single Eltex access point. <br> The Airtune option for a single Eltex access point. <br> The WIDS/WIPS-SW option for a single Eltex access point. Wireless network intrusion detection and prevention service. |
| vWLC virtual controller | The vWLC-AP option for connecting one access point to the vWLC controller. <br> The vWLC-AP-R option is for connecting one access point to a backup vWLC controller. |
| WLC hardware controller | WLC-15; <br> WLC-30; <br> WLC-3200. |

| Contact us | About Eltex |
|------------|-------------|

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