

- Dual-band access point
- Support for 802.11ax
- Radio interface with MU-MIMO 2×2 support
- PoE+ power supply (IEEE 802.3at)
- Seamless roaming
- Up-to-date authentication and encryption means

All-weather access point

WOP-30L is a next-generation Wi-Fi 6 access point that provides a high-speed and secure wireless network, that combines many features and services needed for comfortable access in crowded places. With high speed, low latency, energy efficiency, increased bandwidth and extended range, new access points will be able to provide many additional services.

WOP-30L 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 communications in cottage settlements and remote settlements.

Scalability

The WOP-30L wireless access point is an up-to-date flexible solution that allows changing the network coverage area in order to increase the quantity of serviced mobile devices. Due to a high-performance hardware platform, scalability features and intuitive interface, it is possible to deploy a wireless IT infrastructure easily and quickly.

Wireless connection

Due to support for IEEE 802.11ax standard the WOP-30L access point provides up to 574 Mbps (2.4 GHz) and up to 1201 Mbps (5 GHz) data rates. The use of MU-MIMO technology and omni-directional antennas makes WOP-30L a universal solution for corporate networks construction.

Security

For the corporate environment, modern WPA3 authentication and encryption technologies are supported, which provide personal data protection and environment security. The new generation access points meet the highest security and compatibility requirements for earlier versions of the 802.11 standard.



Performance

The high-performance processors are used in the devices in order to provide reliability and high data processing rates.

Power supply

The PoE technology makes installation of the equipment possible virtually everywhere, regardless of the power supply location. That reduces total cost by discarding power cables and makes installation easier and faster.

Application diagram



Interface configuration

Ethernet	Wi-Fi	SMA connectors to connect antennas
1×2.5G	802.11a/b/g/n/ac/ax	4

Features and capabilities

Interfaces

- 1 port of 10/100/1000/2500BASE-T (RJ-45) with PoE support
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n/ax
- Wi-Fi 5 GHz IEEE 802.11a/n/ac/ax
- 4 SMA-type connectors (female) for connecting external antennas (Omni, sector, panel, etc.)

WLAN capabilities

- Support for IEEE 802.11a/b/g/n/ac/ax
- Support for roaming IEEE 802.11r/k/v
- Data aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Rx)
- WMM-based packet priorities and planning
- Dynamic frequency selection (DFS)
- Support for hidden SSID
- 14 virtual access points
- Third-party access points detection
- Spectrum analyzer
- WDS
- MESH
- Auto channel selection
- APSD
- Support for client mode (STA)
- BSS coloring
- EIRP power control

Network features

- Automatic speed negotiation, duplex mode negotiation and MDI-MDI-X switch-over
- VLAN
- C-VLAN
- Management VLAN
- DHCP client
- GRE
- Local switching
- ACL
- NTP
- Syslog
- IPv6
- LLDP

QoS functions

- Bandwidth limiting
- Configuring WMM (EDCA) parameters for radio interfaces
- 802.1p and DSCP priority

Configuration

- Remote management via Telnet, SSH
- CLI
- NETCONF
- Web interface
- SNMP

Configuration

- CE marked:
 - EN IEC 62311:2020
 - EN IEC 62368-1:2020+A11:2020
 - EN 301 489-1 V2.2.3

- EN 301 489-3 V2.1.1
- EN 301 489-17 V3.2.4
- EN 55032:2015+A1:2020
- EN 55035:2017+A11:2020
- EN IEC 61000-3-2:2019+A1:2021
- EN 61000-3-3:2013+A2:2021
- EN 300 328 V2.2.2
- EN 301 893 V2.1.1
- EN 300 440 V2.2.1

Security

- Centralized authorization via RADIUS server (802.1X WPA/WPA2/WPA3 Enterprise)
- WPA/WPA2/WPA3/OWE encryption
- Captive Portal
- Authorization via RADIUS server when logging into the device

Wireless interface specifications

- Frequency range 2400–2483.5 MHz, 5150–5350 MHz, 5470–5850 MHz
- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulations
- Support for MU-MIMO 2×2
- Support for OFDMA
- Bandwidth: 20, 40 MHz for 2.4 GHz
20, 40 and 80 MHz for 5 GHz

Operating channels¹

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

Data rate²

- 2.4 GHz, 802.11ax: 574 Mbps
- 5 GHz, 802.11ax: 1201 Mbps

Maximum power of the transmitter¹

- 2.4 GHz: 20 dBm
- 5 GHz: 20 dBm

Receiver sensitivity

- 2.4 GHz: up to -92 dBm
- 5 GHz: up to -94 dBm

Clients

- Maximum number of concurrent connections:
 - 2.4 GHz: 120
 - 5 GHz: 120

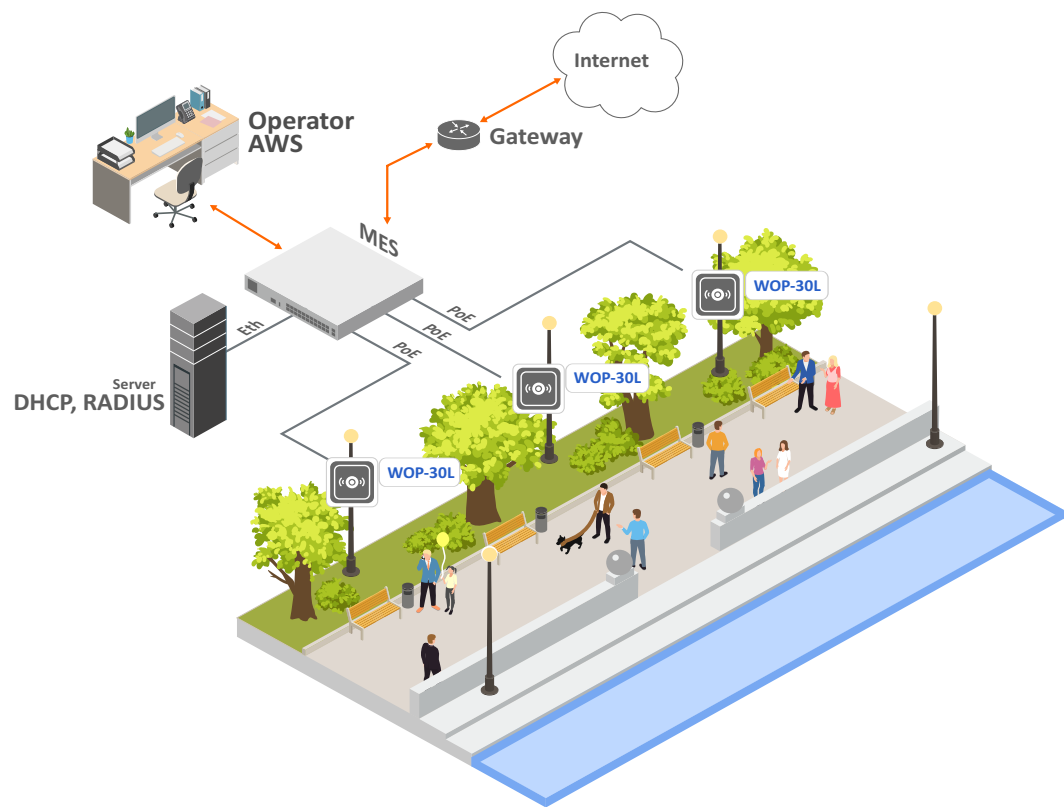
Physical specifications

- Maximum power consumption: no more than 15 W
- 128 MB SPI-NAND Flash
- 256 MB DDR3 RAM
- Power supply: PoE+ 48 V/56 V (IEEE 802.3at-2009)
- Operating temperature: from -45 to +65 °C
- Ingress protection: IP55
- Pole/wall mount
- Dimensions (W × H × D): 125 × 236.5 × 50.4 mm
- Weight: 0.8 kg

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

²The 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 the network coverage range.

Use case



Ordering information

Name	Description
WOP-30L	WOP-30L wireless access point. Mounting kit.

Related products

Omnidirectional antenna: Omni ALX19X-221051-00, 2400/5000/360/5, 1 × SMA.

Sector antenna: 2.4 GHz dual-polarized antenna;
5 GHz dual-polarized antenna.

Power injector Passive PoE 56 V.

Wi-Fi controllers

WLC hardware controller	WLC-15; WLC-30; WLC-3200.
vWLC virtual controller	vWLC-AP option for connecting one access point to a vWLC controller. vWLC-AP-R option for connecting one access point to a redundant vWLC controller.
SoftWLC software controller	SoftWLC option. Software controller with integrated AAA solution and authorization portal for one Eltex access point. Airtune option for one Eltex access point. WIDS/WIPS-SW option for one Eltex access point. Wireless network intrusion detection and prevention service.

Contact us

About Eltex

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Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.