

- Dual-band access point
- Support for 802.11ax
- Radio interface with MU-MIMO 2x2 support
- Built-in antenna
- PoE power supply (IEEE 802.3af)
- Seamless roaming
- Up-to-date authentication and encryption means



All-weather access point

WOP-30LS 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-30LS is an indispensable solution for organizing a wireless network in areas with high-density coverage required (stadiums, parks, etc.), as well as in rooms with a lot of reflections from metal structures (production sites, warehouse complexes, etc.).

Scalability

The WOP-30LS 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 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-30LS access point provides up to 574 Mbps (2.4 GHz) and up to 1201 Mbps (5 GHz) data rates. Using a sector antenna allows decreasing the coverage area of the WOP-30LS access point, reducing the number of potential clients per point and thereby increasing the throughput per client.

Security

To ensure a secure connection, the modern WPA3 authentication and encryption technologies are supported. The new generation access points meet the highest security and compatibility requirements for earlier versions of the 802.11 standard.

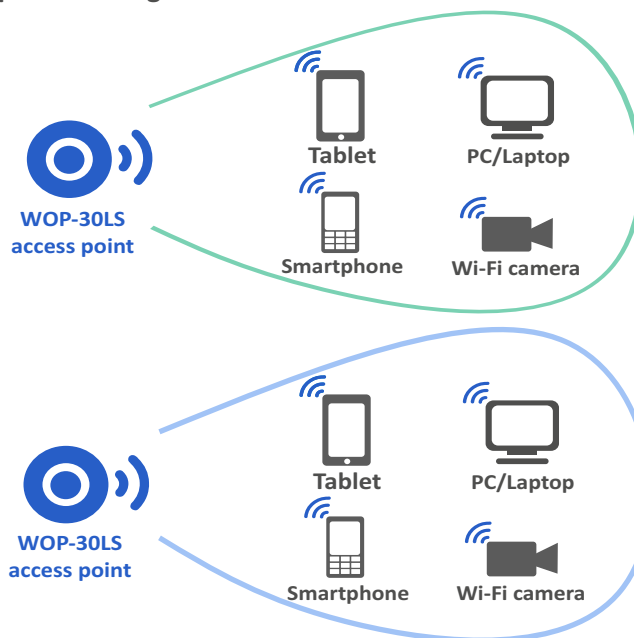
Performance

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
1x2.5G	802.11a/b/g/n/ac/ax

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

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)
- BB 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

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
- Support for WIDS/WIPS¹

Wireless interface specifications

- Frequency range 2400–2483.5 MHz, 5150–5350 MHz, 5470–5850 MHz
- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulations
- Built-in sector antenna
- Support for MU-MIMO 2x2
- 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 effective isotropic radiated power (EIRP)¹

- 2.4 GHz: 29 dBm
- 5 GHz: 32 dBm

Maximum power of the transmitter¹

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

Antenna parameters

- Gain:
 - 2.4 GHz: up to 9 dBi
 - 5 GHz: up to 12 dBi
- Linear polarization: X-pol
- SWR: 2.0:1
- Beam width (H): 55±5°
- Beam width (V): 40±5°

Receiver sensitivity

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

Clients

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

Physical specifications

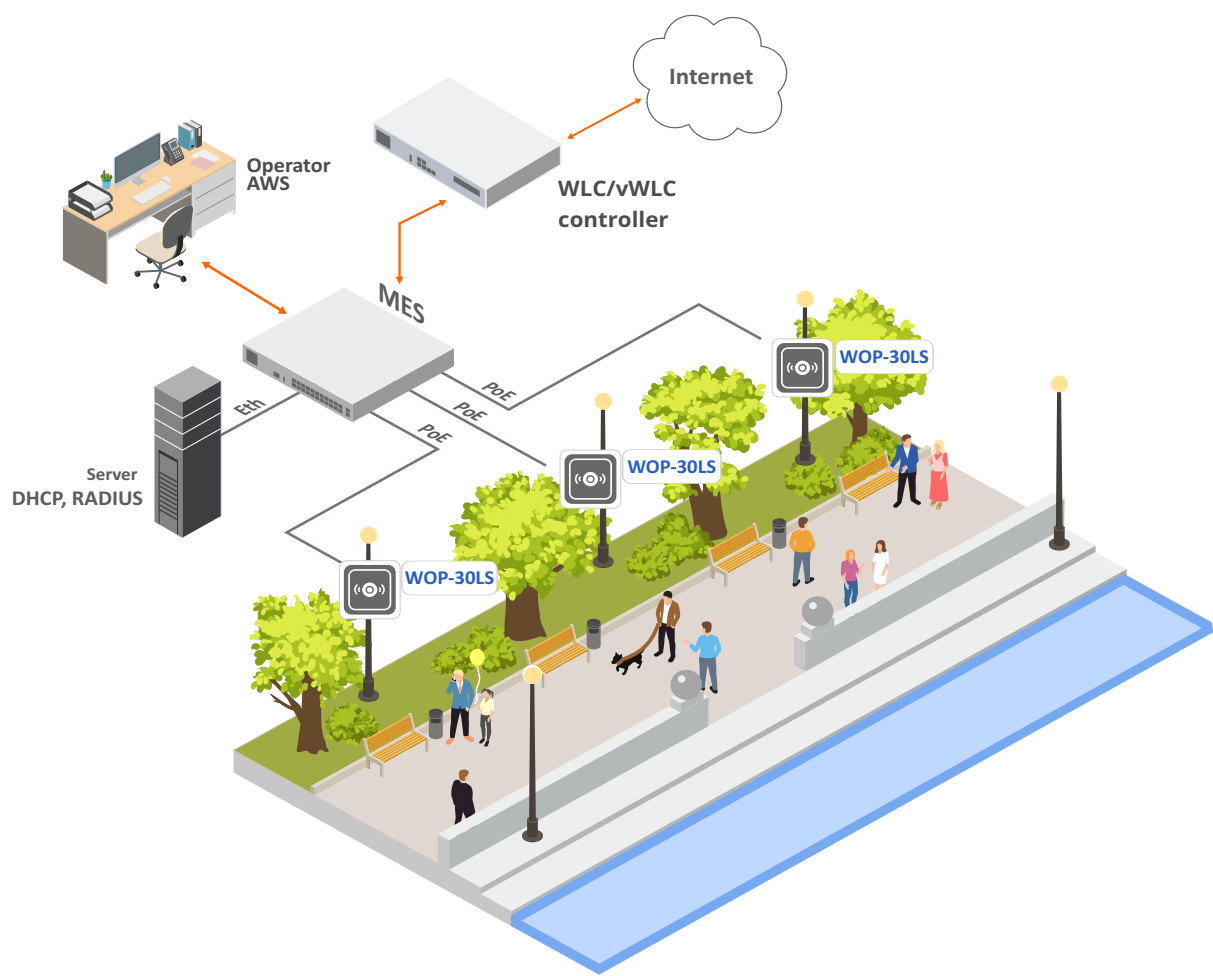
- Power consumption: no more than 12.95 W
- 128 MB SPI-NAND Flash
- 256 MB DDR3 RAM
- Power supply: PoE 48 V/56 V (IEEE 802.3af-2003)
- Operating temperature: from -45 to +65 °C
- Ingress protection: IP65
- Pole/wall mount
- VESA size: 100 × 100
- Dimensions (W × H × D): 250 × 250 × 97 mm (with cable gland)
- Weight: 1.1 kg

¹Support for WIDS/WIPS functionality is provided under license.

²The number of channels and the value of the maximum output power will vary according to the rules of radio frequency regulation in your country.

³The 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-30LS	WOP-30LS wireless access point. Mounting kit.

Related products

Power injector Passive PoE 56 V.

Related software

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.

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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.