

- Dual band access point
- Support for 802.11ax
- Radio interface with MU-MIMO 2x2 support
- Built-in antenna
- PoE power supply (IEEE 802.3af-2003)
- Up-to-date authentication and encryption means



All-weather access point

WOP-30LS, a next-generation Wi-Fi 6 access point, 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 the latest flexible solution that allows changing the network coverage area, thereby increasing the number of mobile devices served. The high performance of the hardware platform, scalability and intuitive interface make it easy and quick to deploy a wireless IT infrastructure.

Wireless connection

Due to support for IEEE 802.11ax standard the WOP-30LS access point provides 574 Mbps (2.4 GHz) + 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.

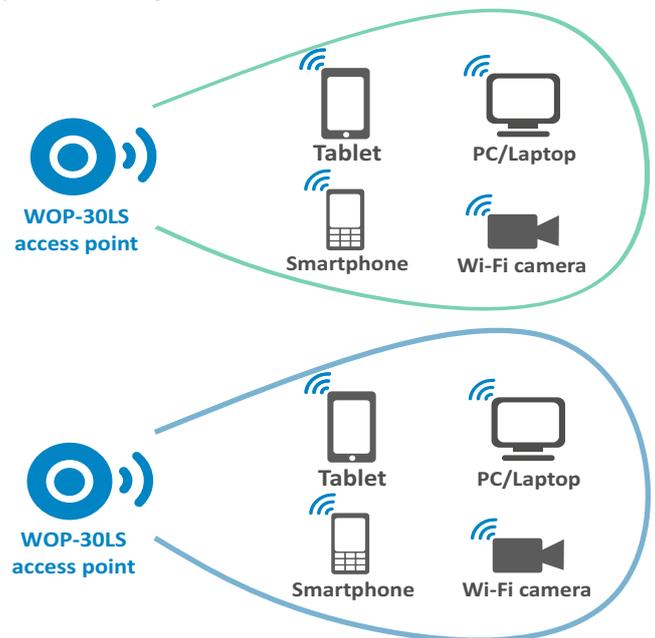
Performance

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/v¹
- 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
- Detection of access points from other vendors
- Spectrum analyzer¹
- APSD

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 outside 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 authorization via RADIUS server (802.1X WPA/WPA2/WPA3 Enterprise)
- WPA/WPA2/WPA3 encryption
- Captive Portal

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 channels²

- 802.11b/g/n/ax: 1–13 (2402–2482 MHz)
- 802.11a/n/ac/ax: 36–64 (5170–5330 MHz)
100–144 (5490–5730 MHz)
149–165 (5735–5835 MHz)

Data rate³

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

Maximum power of the transmitter²

- 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: H/V
- 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

Physical specifications

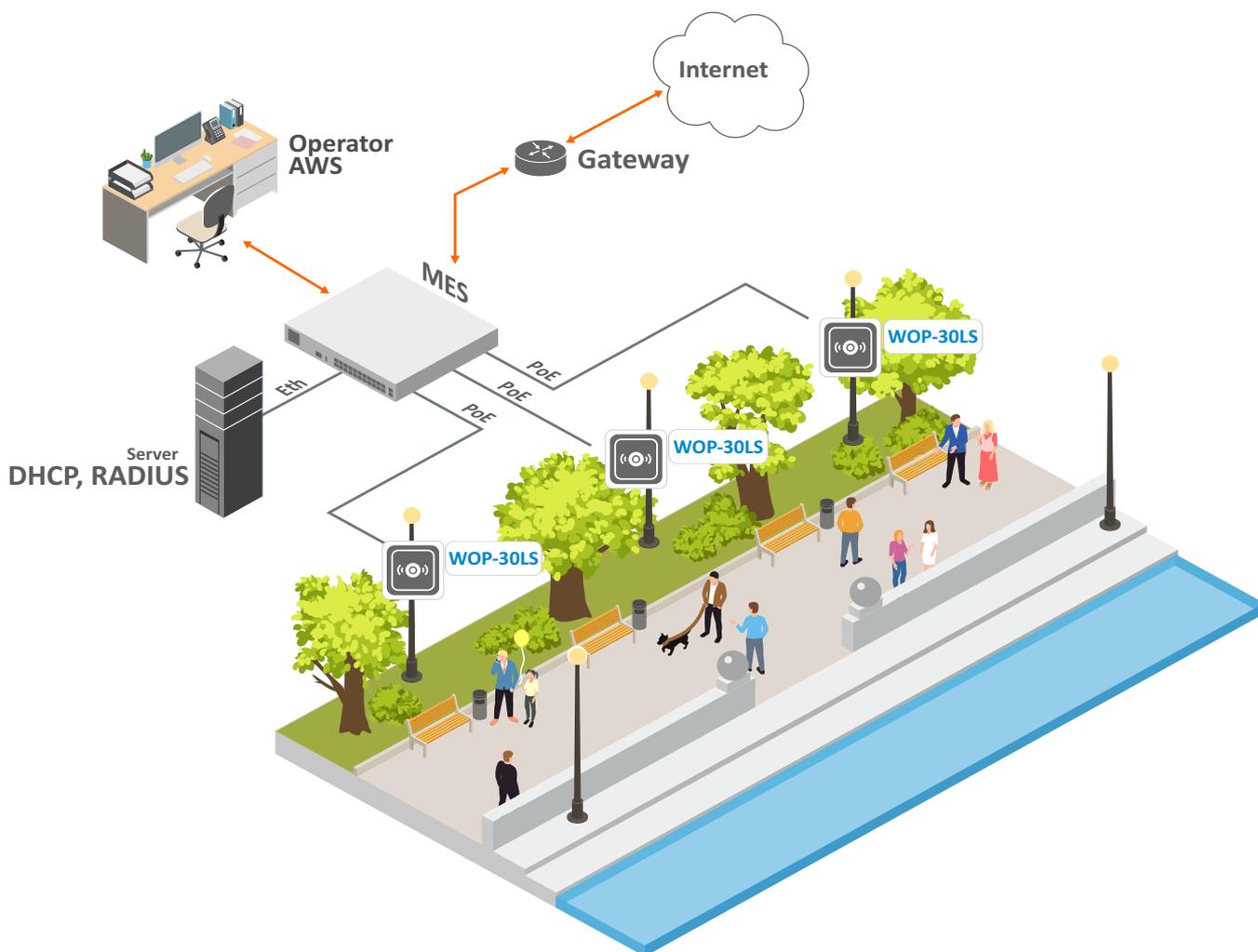
- Power consumption: no more than 12.95 W
- 128 MB SPI-NAND Flash
- 256 MB DDR3 RAM
- Power supply: PoE 48 V/56 V (IEEE 802.3af-2003)
- Operating temperature: from -45 to +65 °C
- Ingress protection: IP65
- Pole/wall mount
- Dimensions (W × H × D): 250 × 250 × 97 mm (with cable gland)
- Weight: 1.1 kg

¹Will be fully supported in future releases.

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 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. The environment can influence on the network coverage range.

Application diagram



Ordering information

| Name | Description |
|----------|---|
| WOP-30LS | WOP-30LS wireless access point. Mounting kit. |

Related products

Power injector: Passive PoE 56 V.

Related software

| | |
|------------------|---|
| Wi-Fi controller | WLC feature. Software controller with built-in AAA solution and captive portal for one ELTEX access point. Airtune feature for one ELTEX access point. |
|------------------|---|

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