

- 1Ex db IIC T5 Gb explosion protection
- Dual-band access point
- Support for 802.11ax
- 2.4 GHz radio interface with MU-MIMO 2x2 support
- 5 GHz radio interface with MU-MIMO 2x2 support
- 24 V Passive PoE power supply
- Up to 40 clients per an access point
- Up-to-date authentication and encryption means

### Explosion-proof access point

WOP-3L-EX is a next-generation industrial Wi-Fi 6 (IEEE 802.11ax) access point that provides a high-speed and secure wireless network. An explosion-proof access point is ideal for installation at manufacturing facilities in the chemical, oil refining, gas, and other industries in areas with a potentially explosive atmosphere. The explosion protection marking 1Ex db IIC T5 Gb allows the device to be used in hazardous areas of indoor and outdoor installations.

### Scalability

The WOP-3L-EX 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-3L-EX access point provides up to 300 Mbps (2.4 GHz) and up to 1201 Mbps (5 GHz) data rates.

The use of MU-MIMO technology and omnidirectional protected antennas makes the WOP-3L-EX a versatile solution for building corporate networks in hazardous environments.

### 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.



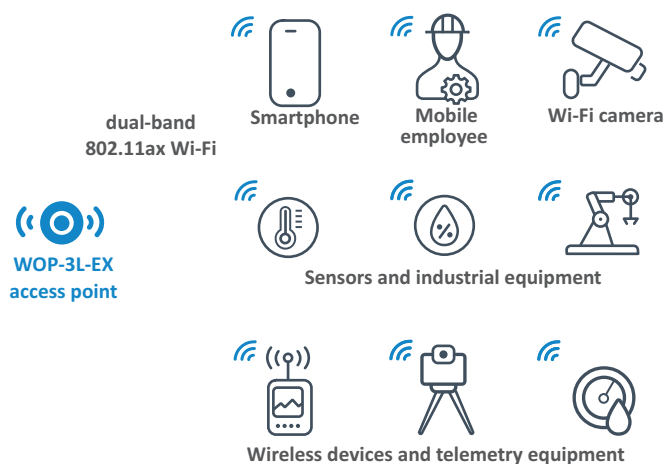
### Performance

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
1x1G	802.11a/b/g/n/ac/ax

## 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/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
- 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
- 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/OWE encryption
- Captive Portal
- Authorization via RADIUS server when logging

### Wireless interface specifications

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

### Operating channels<sup>1</sup>

- 802.11b/g/n: 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 rate<sup>2</sup>

- 2.4 GHz, 802.11n: 300 Mbps
- 5 GHz, 802.11ax: 1201 Mbps

### Maximum power of the transmitter<sup>1</sup>

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

### Built-in antenna gain

- 2.4 GHz: ~5 dBi
- 5 GHz: ~5 dBi

### Receiver sensitivity

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

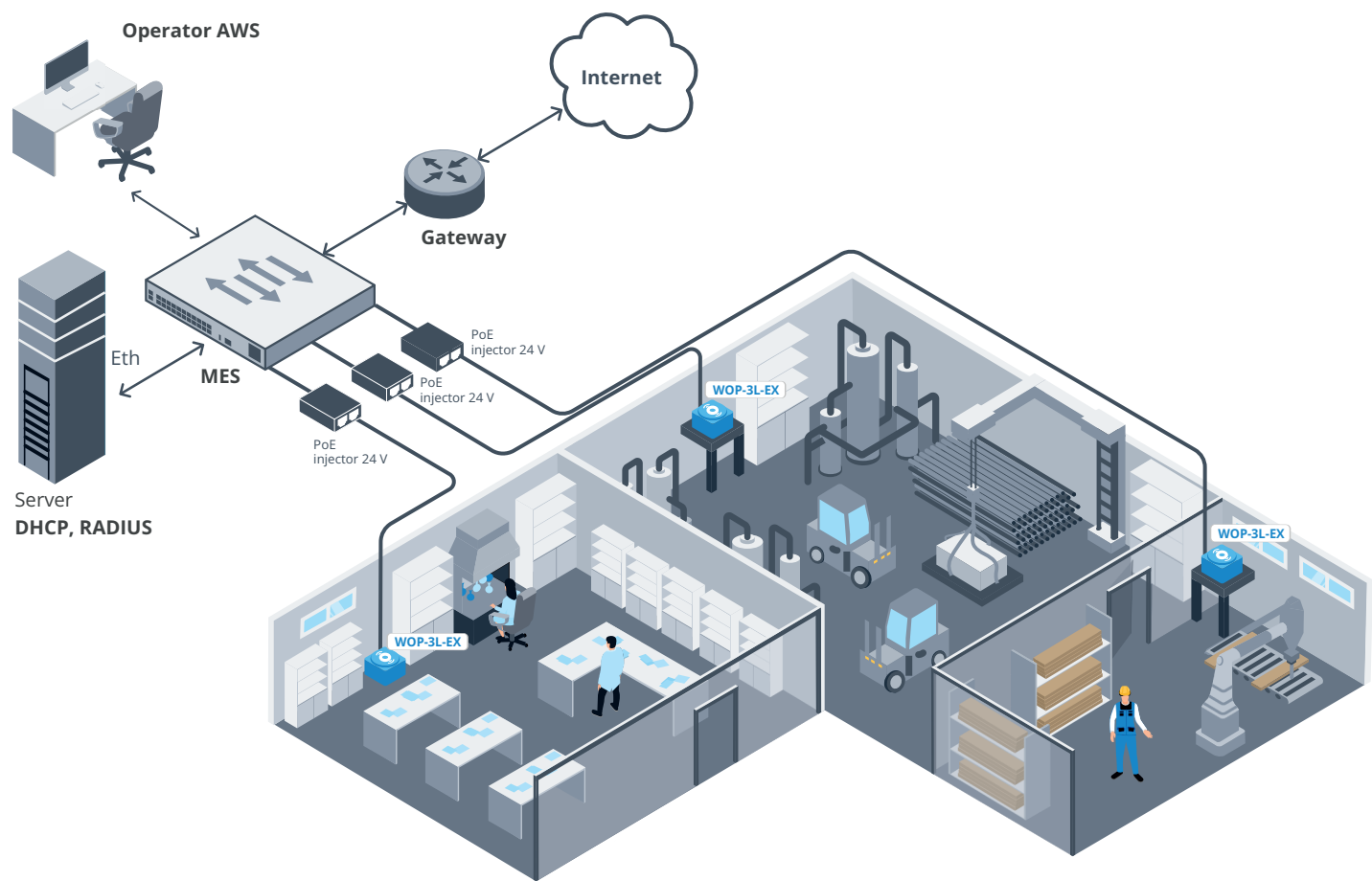
### Physical specifications

- Maximum power consumption: no more than 8.5 W
- 128 MB SPI-NAND Flash
- 128 MB DDR2 RAM
- Power supply: Passive PoE 24 V
- Operating temperature: from -45 to +60 °C
- Explosion-proof marking: 1Ex db IIC T5 Gb
- Ingress protection: IP66
- Pole/wall or mounting plate installation
- Dimensions (W × H × D): 235 × 503 × 164 mm
- Weight: 10.2 kg

<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 802.11 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
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**WOP-3L-EX** WOP-3L-EX wireless access point. Passive PoE 24 V injector, power cable.

Related software

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.
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**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.

WLC hardware controller	WLC-15; WLC-30; WLC-3200.
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Contact us

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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