

- 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.

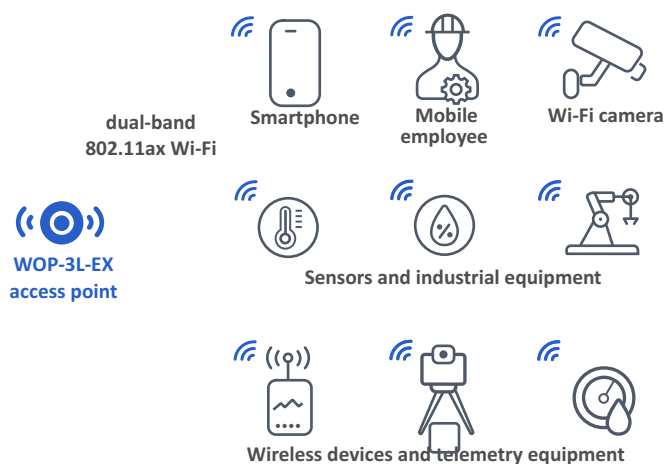
Performance

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
- Auto channel selection
- APSD

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
- 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

Wireless interface specifications

- Frequency range 2400–2483.5 MHz, 5150–5350 MHz, 5470–5850 MHz
- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulations
- External non-removable 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 channels¹

- 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 rate²

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

Maximum power of the transmitter¹

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

Built-in antenna gain

- 2.4 GHz: ~4 dBi
- 5 GHz: ~6 dBi

Receiver sensitivity

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

Clients

- Maximum number of concurrent connections: 64

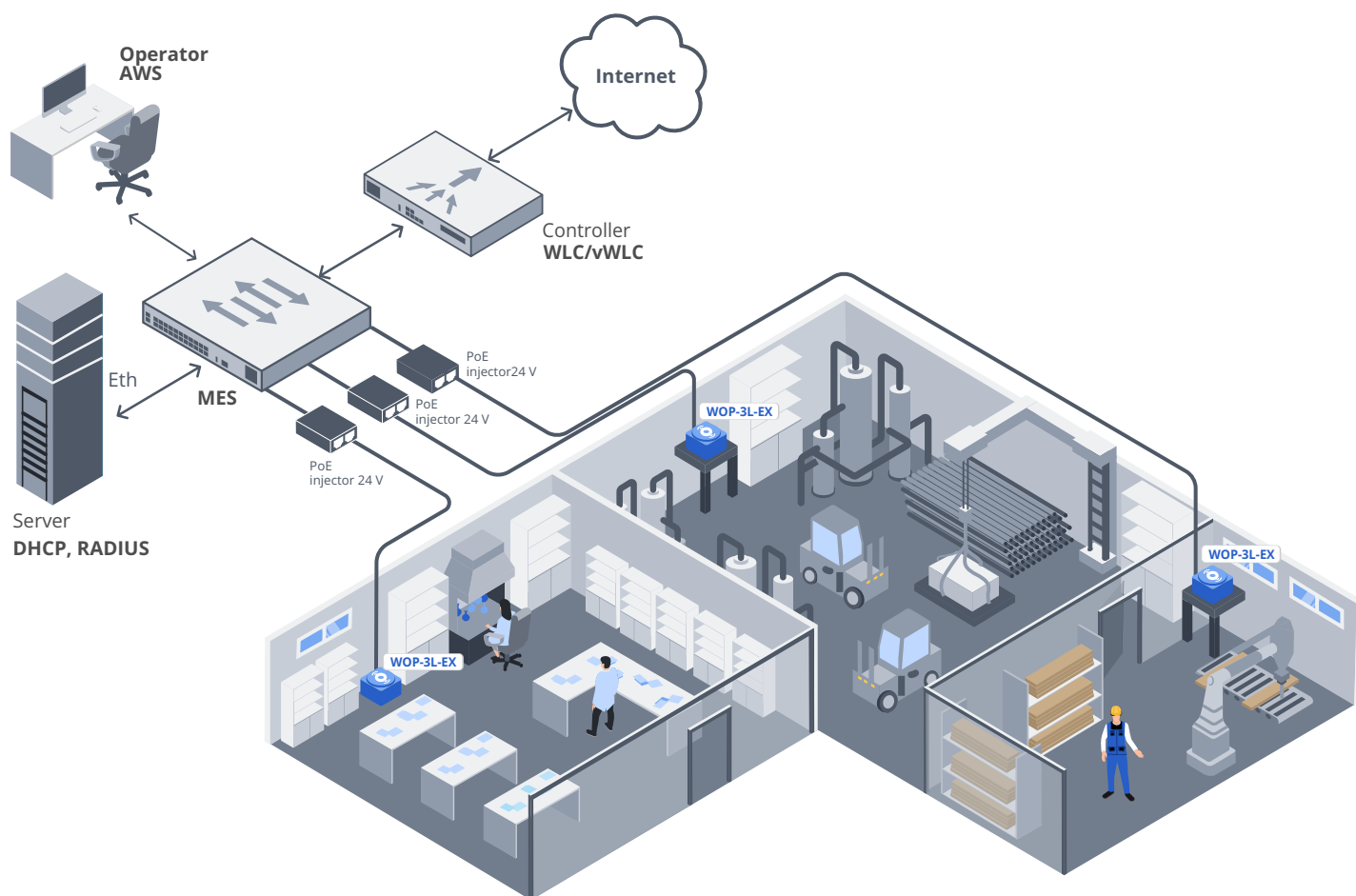
Physical specifications

- 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
- Wall/floor installation
- Dimensions (W × H × D): 235 × 503 × 164 mm
- Weight: 10.2 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
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WOP-3L-EX	WOP-3L-EX wireless access point. Passive PoE 24 V injector, power cable.
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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.

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.