

- Dual band access point
- Support for 802.11ax
- Radio interface with MU-MIMO 2x2
- 2 × 1GE and 2 × SFP (1G) ports
- PoE+ (IEEE 802.3at-2009) and 12–56 V DC power supply
- Up-to-date authentication and encryption means

### Industrial access point

WOP-30LI is a next-generation industrial access point of Wi-Fi 6 (IEEE 802.11ax) that provides a high-speed and secure wireless network. Due to built-in 2 × 1GE and 2 × SFP (1G) ports, WOP-30LI allows connecting other devices and cascading multiple access points into one network.

The robust sealed housing of WOP-30LI with IP67 ingress protection is ideal for installing the device in extreme industrial facilities and open areas (factories, quarries, production buildings, large industrial complexes, warehouses, etc.)

### Scalability

The WOP-30LI 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-30LI access point provides 574 Mbps (2.4 GHz) + 1201 Mbps (5 GHz) data rates. Using the MU-MIMO technology and omnidirectional antennas makes WOP-30LI a universal solution for organizing public networks.

### 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.



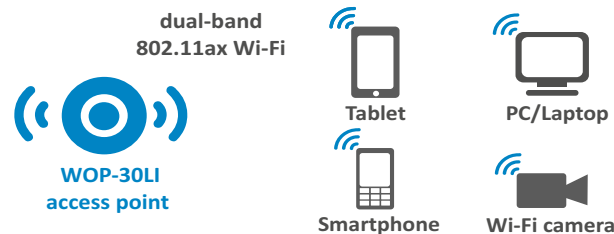
### Performance

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

### Power supply

WOP-30LI supports power supply variability, so the access point is powered either through a DC connector from a DC power supply or via an Ethernet cable (PoE+). The ability to choose a power source expands the application possibilities of the device.

### Application diagram



### Interface configuration

Ethernet	SFP	Wi-Fi	N type connectors for antennas
2×1G	2×1G	802.11a/b/g/n/ac/ax	4

## Features and capabilities

### Interfaces

- 2 × 10/100/1000BASE-T ports (RJ-45), one of the ports with PoE+ support
- 1 × 100/1000BASE-X port (SFP)
- 1 × 1000BASE-X port (SFP)
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n/ax
- Wi-Fi 5 GHz IEEE 802.11a/n/ac/ax
- 4 × N type connectors (female) for external antennas (Omni, sector, panel and etc.)

### WLAN capabilities

- Support for IEEE 802.11a/b/g/n/ac/ax
- Support for IEEE 802.11r/k/v roaming
- 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
- Support for wireless bridges (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
- IPv6
- LLDP

### QoS functions

- Packet priorities and planning based on profiles
- Bandwidth limiting for each SSID

### Configuration

- Remote management 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

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

- 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 rate<sup>2</sup>

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

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

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

### Receiver sensitivity

- 2.4 GHz: up to -93 dBm
- 5 GHz: up to -94 dBm

### Physical specifications

- Power consumption: no more than 17.5 W
- 128 MB SPI-NAND Flash
- 256 MB DDR3 RAM
- Power supply:
  - PoE+ 48 V/56 V (IEEE 802.3at-2009)
  - DC 12–56 V
- Operating temperature: from -45 to +65 °C
- Ingress protection: IP67
- Dimensions (W × H × D): 308 × 253 × 91 mm  
308 × 367 × 91 mm (with cable gland)
- Weight: 3.2 kg
- Pole/wall mount

<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 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.

## Use cases

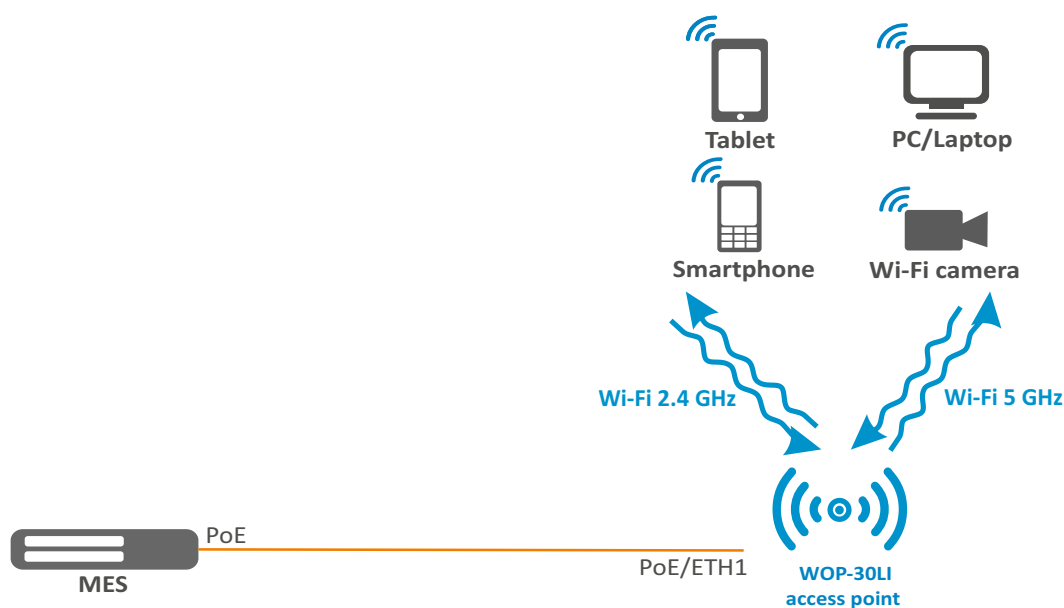


Figure 1 — Use case of WOP-30LI with PoE port

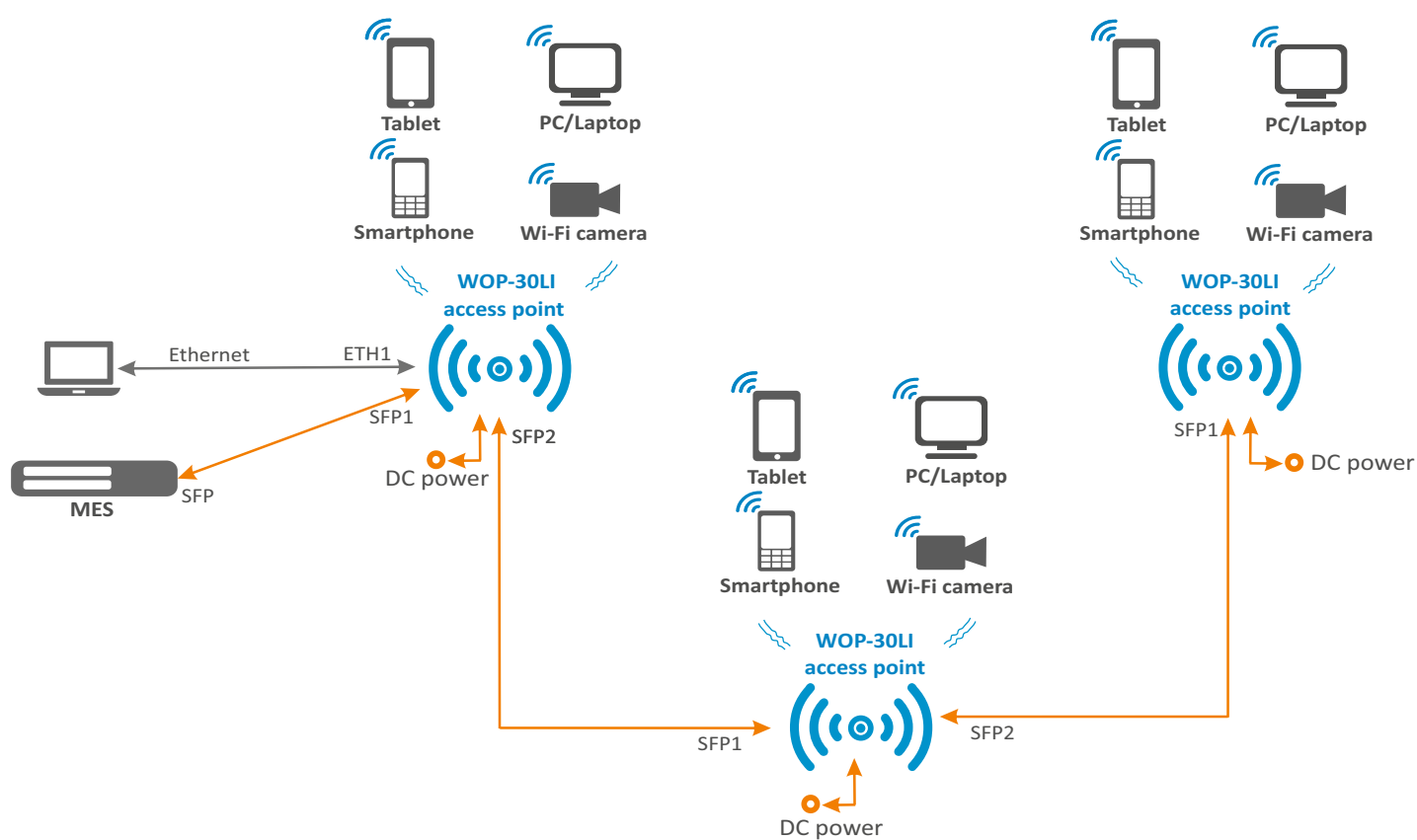


Figure 2 — Use case of WOP-30LI with DC power and SFP ports

Use cases (continued)

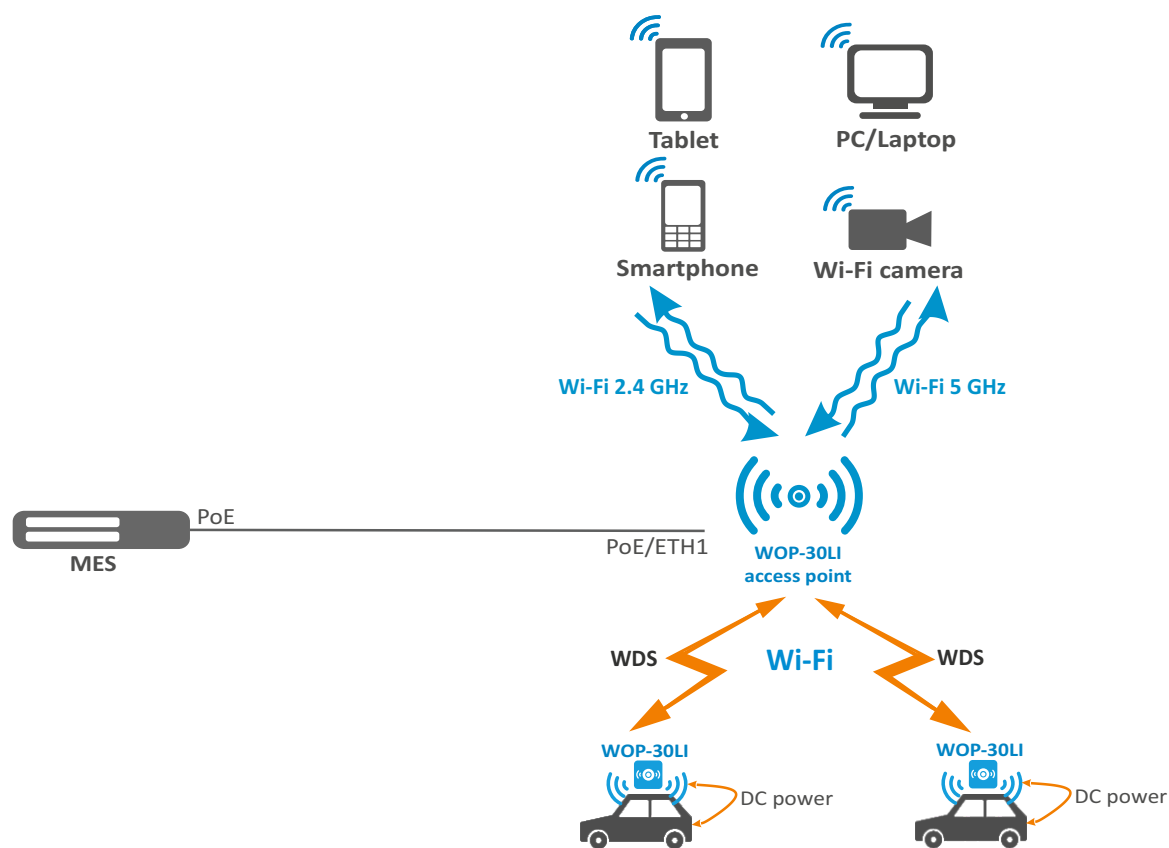


Figure 3 — Use case of WOP-30LI with DC power and WDS

Ordering information

Name	Description
WOP-30LI	WOP-30LI access point. Cable glands and mounting kit.

Related products

Omnidirectional antenna: 2.4 GHz; 5 GHz.

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

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.
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Contact us

About Eltex

+7 (383) 274 10 01  
+7 (383) 274 48 48

eltex@eltex-co.ru

www.eltex-co.com

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