

- Dual band access point with support for 802.11ax
- Support for MU-MIMO 2x2
- PoE+ power supply (IEEE 802.3at)
- Seamless roaming
- Up-to-date authentication and encryption means



### Solution for enterprises

WEP-3ax is a new Wi-Fi 6 generation access point that will provide maximum bandwidth and stable wireless connection for all connected devices.

With high speed, low latency, energy efficiency, increased bandwidth and extended range, the new 802.11ax access points support a wide range of devices and applications that require maximum performance in demanding corporate environments. Compared to the access points of the previous Wi-Fi standards, the new access points will be able to provide many additional services.

WEP-3ax is a universal solution for organization of wireless networks in highly crowded areas and high traffic environments (offices, state institutions, conference halls, laboratories, hotels etc.).

### Scalability

WEP-3ax is an up-to-date flexible solution that allows changing network coverage in order to increase the quantity of serviced mobile devices. Due to high-performance hardware platform, scalability features and easy-to-use interface, it is possible to set up IT infrastructure simply and fast.

### Wireless connection

Due to support for IEEE 802.11ax standard, the WEP-3ax access point provides 574 Mbps (2.4 GHz) + 1201 Mbps (5 GHz) data rates.

The use of MU-MIMO technology and embedded omnidirectional antennas makes WEP-3ax a universal solution for corporate networks construction.

### Security

For the corporate environment, modern WPA3 authentication and encryption technologies are supported, which provides personal data protection and environment security. The new generation access points meet the highest security and compatibility requirements for earlier versions of the 802.11 standard.

### Performance

To ensure a stable and uninterrupted operation, the device is equipped with high-performance chipsets providing high data processing rate.

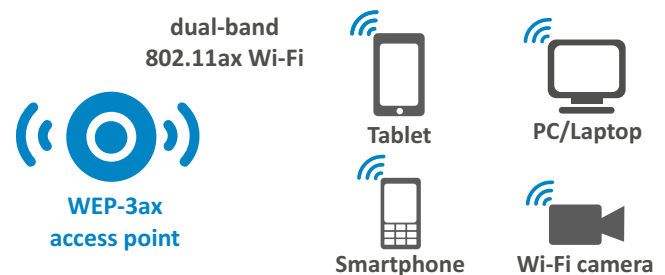
### Power supply

The PoE+ technology makes installation of the equipment possible virtually everywhere, regardless of the power supply location. The use of PoE+ technology reduces total cost by discarding power cables and makes installation easier and faster.

### Interface configuration

Name	RJ-45	Wi-Fi
WEP-3ax	1 × 2.5G	802.11a/b/g/n/ac/ax

### Application diagram



## Features and capabilities

### Interfaces

- 1 port of Ethernet 100/1000/2500BASE-T (RJ-45) with PoE+
- 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
- 32 virtual access points
- Detection of access points from other vendors
- Spectrum analyzer
- Channel auto-selection
- BSS coloring

### Network features

- Automatic speed negotiation, duplex mode negotiation and MDI/MDI-X switch-over
- Transmission of subscriber traffic outside of tunnels
- VLAN support
- NTP
- GRE
- DHCP client

### QoS functions

- Bandwidth limiting for each SSID
- Client data rate limiting for each SSID
- Support for prioritization by CoS and DSCP

### Security

- Centralized authorization via RADIUS server (802.1X WPA/WPA2/WPA3 Enterprise)
- WPA/WPA2/WPA3 encryption
- Support for Captive Portal
- Support for WIDS/WIPS<sup>1</sup>

### Configuration

- Remote control via Telnet, SSH
- CLI
- Web interface
- NETCONF

### Wireless interface specifications

- Frequency range: 2400–2483.5 MHz, 5150–5350 MHz, 5470–5850 MHz
- BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulations
- Built-in omnidirectional antennas
- Support for MU-MIMO 2x2
- Support for OFDMA
- Bandwidth: 20, 40 MHz for 2.4 GHz;  
20, 40, 80 MHz for 5 GHz

#### Operating channels

- 802.11b/g/n/ax: 1–13 (2402–2482 MHz)<sup>2</sup>
- 802.11a/n/ac/ax: 36–64 (5170–5330 MHz)  
100–144 (5490–5730 MHz)  
149–165 (5735–5835 MHz)<sup>2</sup>

#### Data rate<sup>3</sup>

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

#### Maximum power of the transmitter<sup>2</sup>

- 2.4 GHz: 22.5 dBm
- 5 GHz: 24 dBm

#### Built-in antenna gain

- 2.4 GHz: ~ 3 dBi
- 5 GHz: ~ 3 dBi

#### Receiver sensitivity

- 2.4 GHz: up to -92 dBm
- 5 GHz: up to -93 dBm

### Physical specifications

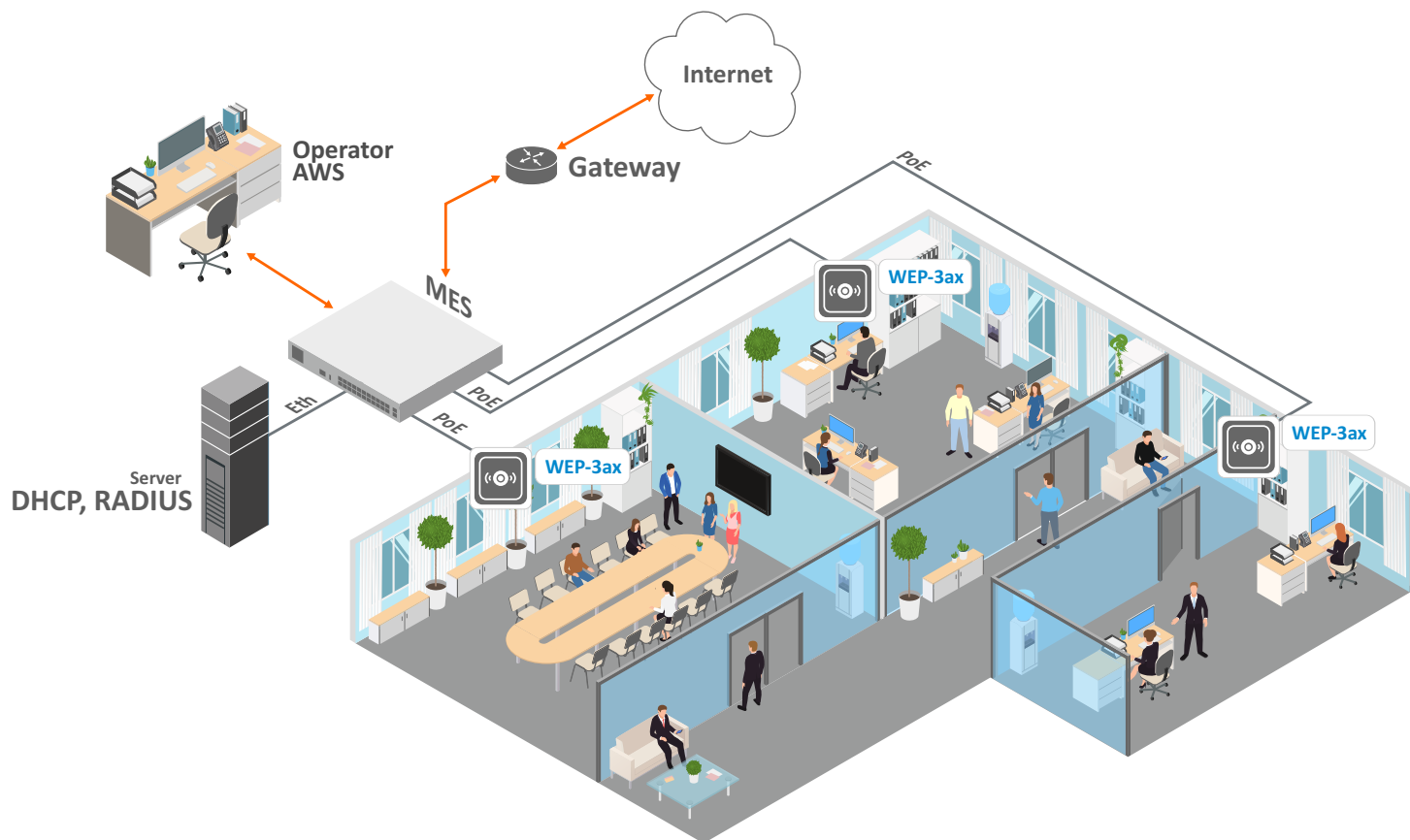
- Power consumption: no more than 13 W
- 256 MB NAND Flash
- 1 GB DDR4 RAM
- Power supply: PoE+ 48 V/56 V (IEEE 802.3at-2009)
- Operating temperature: from +5 to +40 °C
- Dimensions (Diameter × Height): 230 × 56 mm

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

<sup>2</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>3</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.

### Application diagram



### Ordering information

Name	Description
WEP-3ax	WEP-3ax 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; WIDS/WIPS feature for one ELTEX access point, a service to detect and prevent intrusions to wireless network.
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### 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.