

- Dual band access point
- Support for 802.11ax
- 2.4 GHz radio interface with MIMO 2 × 2 support
- 5 GHz radio interface with MU-MIMO 2 × 2 support
- PoE power supply (IEEE 802.3af)
- Up to 40 clients per access point
- Up-to-date authentication and encryption means



Solution for enterprises

WEP-3L provides easy and secure access to a high-speed wireless network that combines many features and services required by enterprise customers. WEP-3L represents 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-3L wireless access point is a cutting-edge flexible solution that can change the network coverage in order to increase the quantity of serviced mobile devices. Due to high-performance hardware platform, scalability features and intuitive interface, it is possible to set up IT infrastructure simply and fast.

Wireless connection

Due to support for IEEE 802.11n/ax standards the WEP-3L access point provides 300 Mbps (2.4 GHz) + 1,201 Mbps (5 GHz) data rates. The use of MU-MIMO technology and built-in omnidirectional antennas makes WEP-3L a universal solution for corporate networks construction.

Security

For the corporate environment, modern WPA3 authentication and encryption technologies are supported, which provide 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 stable and continuous operation of the device, high-performance processors are used to achieve high speed of data processing.

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.

Application diagram



Interface configuration

Ethernet	Wi-Fi
1×1G	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
- External 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 features

- 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 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
- Built-in omnidirectional antennas
- Support for 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 и 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

- Power consumption: no more than 10.5 W
- 128 MB SPI-NAND Flash
- 128 MB DDR2 RAM
- Power supply: PoE 48 V/56 V (IEEE 802.3af-2003)
- Operating temperature: from +5 to +40 °C
- Dimensions (diameter × height): 200 × 40 mm
- Weight: 0.4 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 standard. The real bandwidth can be different. Conditions of the network, environment, the amount of traffic, building materials and structures and network service data can decrease the real bandwidth. The environment can also influence the network coverage range.

Use case



Ordering information

Name	Description
WEP-3L	WEP-3L wireless access point. Mounting kit.

Related products

Power injector Passive PoE 56 V.

Wi-Fi controllers

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	Soft-WLC 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.