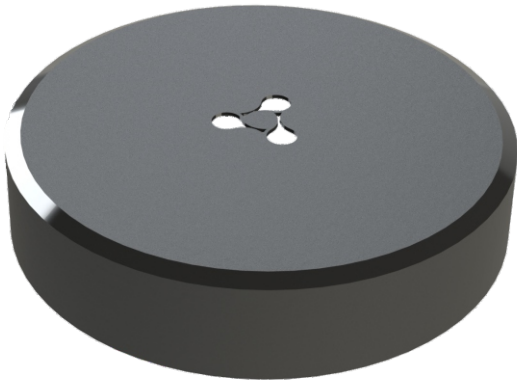


- Dual-band access point
- Support for 802.11ac
- Radio interface with MIMO 2×2 support
- DC 5V power supply
- Up to 20 clients per an access point
- Up-to-date authentication and encryption means



Solution for enterprises

WEP-1L provides easy and secure access to a high-speed wireless network that combines many features and services required by corporate clients. WEP-1L is a universal solution for organization of wireless networks with small amount of users (offices, small branches of organizations, etc.).

Scalability

The WEP-1L wireless access point is an up-to-date flexible solution that allows changing the 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 802.11n/ac standards the WEP-1L access point provides up to 300 Mbps (at 2.4 GHz) and up to 867Mbps (at 5 GHz) data rates. The use of MIMO technology and built-in omnidirectional antennas makes WEP-1L a universal solution for corporate networks construction.

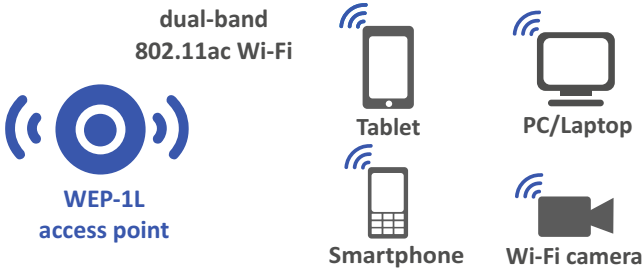
Security

WEP-1L uses modern authentication and encryption technologies to protect personal data and ensure the security of the corporate environment. Particularly, it uses a dynamic key that is unique for each active user station.

Performance

High-performance processors are used to ensure stable and uninterrupted device operation, delivering high data processing rates.

Application diagram



Interface configuration

Ethernet	Wi-Fi
1×1G	802.11a/b/g/n/ac

Features and capabilities

Interfaces

- 1 port of 10/100/1000BASE-T (RJ-45)
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n
- Wi-Fi 5 GHz IEEE 802.11a/n/ac

WLAN capabilities

- Support for IEEE 802.11a/b/g/n/ac
- 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
- APSD

Network features

- Automatic speed negotiation, duplex mode negotiation and MDI-MDI-X switch-over
- VLAN support (Access, Trunk, General)
- DHCP client
- GRE
- GRE over IPsec
- 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 via Telnet, SSH
- CLI
- NETCONF
- Web interface
- SNMP

Security

- Centralized authorization via RADIUS server (802.1X WPA/WPA2 Enterprise)
- WPA/WPA2 encryption
- Support for 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 modulations
- Support for MIMO 2×2
- 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: 36–64 (5170–5330 MHz)
100–144 (5490–5730 MHz)
149–165 (5735–5835 MHz)

Data rate²

- 802.11n: up to 300 Mbps
- 802.11ac: up to 867 Mbps

Maximum power of the transmitter¹

- 2.4 GHz: 18 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 -92 dBm

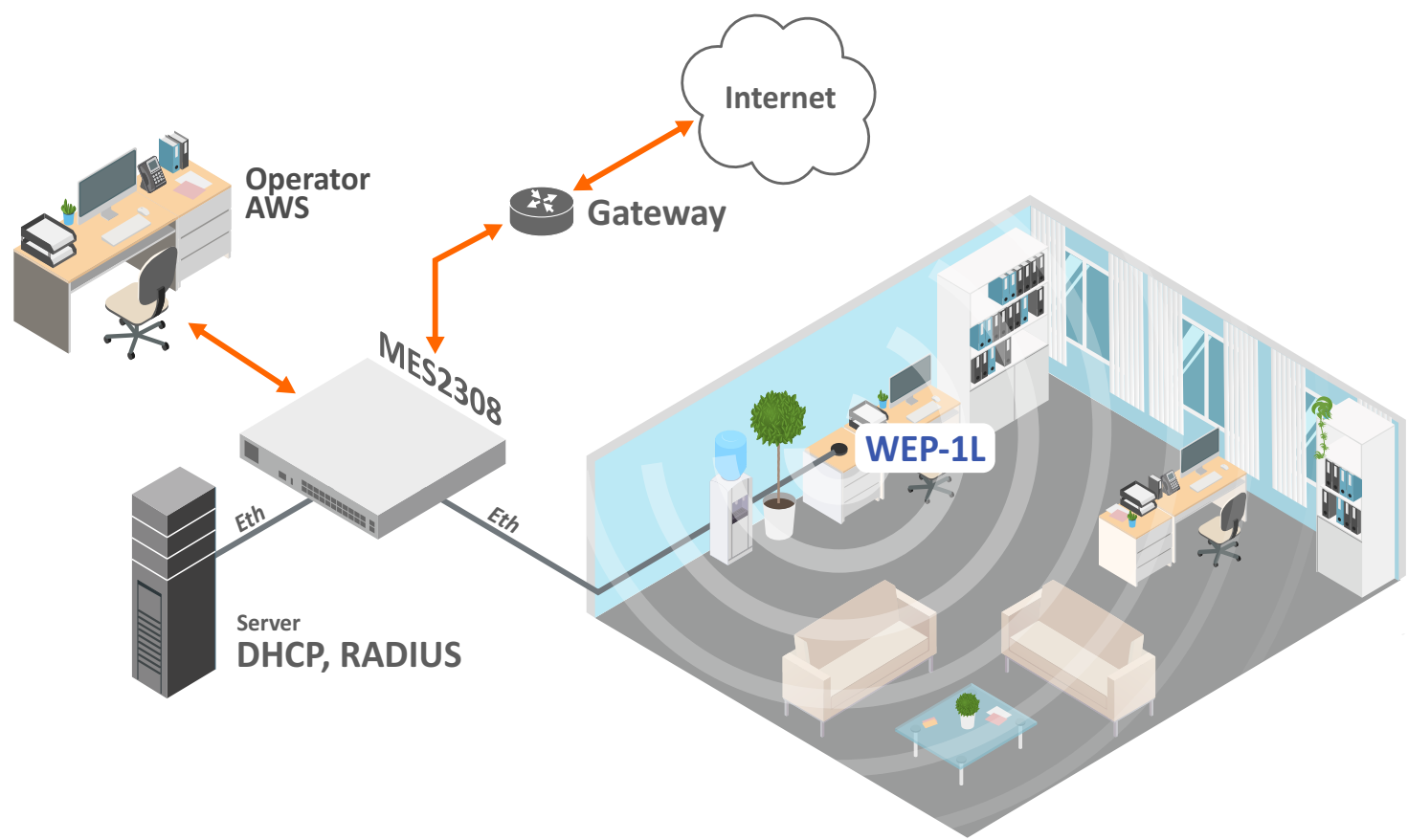
Physical specifications

- Power consumption: no more than 7 W
- 32 MB SPI-NOR Flash
- 128 MB DDR2 RAM
- 5.3 V DC, 2A external power adapter
- Operating temperature: from +5°C to +40°C
- Dimensions (diameter × height): 100 × 23 mm
- Weight: 85 g

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
WEP-1L	WEP-1L wireless access point.
Wi-Fi controllers	
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.
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.

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.