

- Dual-band access point
- Support for 802.11ac
- Radio interface 2.4 GHz with MIMO 2×2 support
- Radio interface 5 GHz with MIMO 4×4 support
- PoE power supply (IEEE 802.3af)
- Up-to-date authentication and encryption means



Solution for enterprises

WEP-200L provides easy and secure access to a high-speed wireless network that combines many features and services required by enterprise customers. WEP-200L represents a universal solution for organizing a wireless network in a highly crowded areas and high traffic environments (offices, government agencies, conference halls, laboratories, hotels, etc.).

Scalability

The WEP-200L 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 features and intuitive interface, it is possible to deploy wireless IT infrastructure easily and quickly.

Wireless connection

Due to support for IEEE 802.11n/ac standards, the WEP-200L access point provides up to 300 Mbps (2.4 GHz) and up to 1733 Mbps (5 GHz) data rates. The use of MIMO technology and built-in omni-directional antennas makes WEP-200L a universal solution for corporate networks construction.

Security

WEP-200L 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.

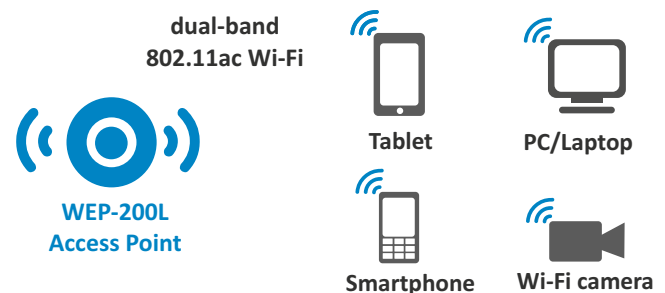
Performance

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

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

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

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
- WDS
- APSD
- Support for client mode (STA)

Network features

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

Regulatory Compliance

- CE marked:
 - EN IEC 62311:2020
 - EN IEC 62368-1:2020+A11:2020
 - EN 301 489-1 V2.2.3
 - EN 301 489-3 V2.1.1
 - EN 301 489-17 V3.2.4
 - EN 55032:2015+A1:2020
 - EN 55035:2017+A11:2020
 - EN IEC 61000-3-2:2019+A1:2021
 - EN 61000-3-3:2013+A2:2021
 - EN 300 328 V2.2.2
 - EN 301 893 V2.1.1
 - EN 300 440 V2.2.1

Security

- Centralized authorization via RADIUS server (802.1X WPA/WPA2 Enterprise)
- WPA/WPA2 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 modulations
- Support for MIMO 2×2 for 2.4 GHz
MIMO 4×4 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: 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 1733 Mbps

Maximum power of the transmitter¹

- 2.4 GHz: 18 dBm
- 5 GHz: 20 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 -92 dBm

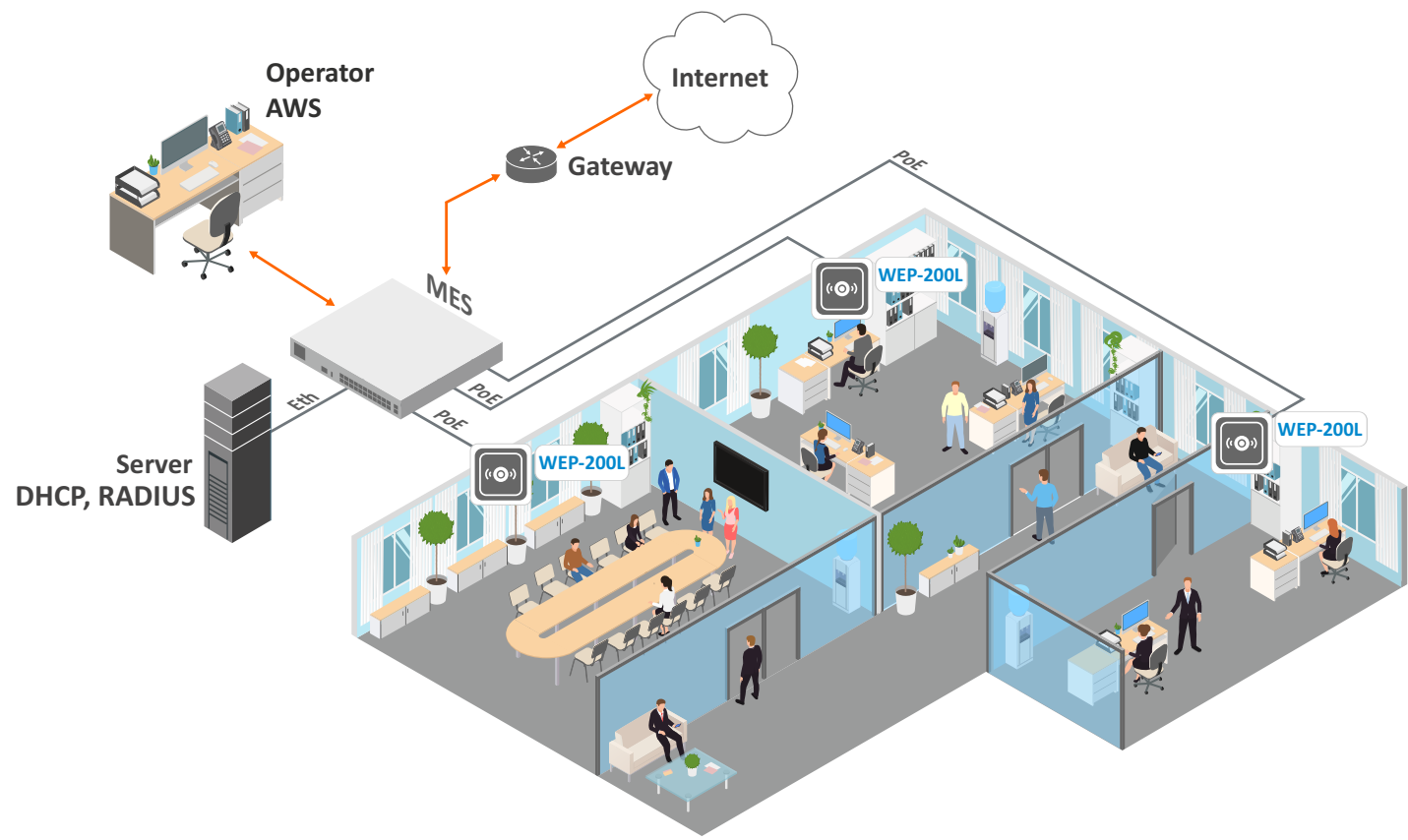
Physical specifications

- Power consumption: no more than 12.95 W
- 128 MB SPI-NAND Flash
- 256 MB DDR3 RAM
- Power supply: PoE 48 V/56 V (IEEE 802.3af-2003)
- Operating temperature: from +5 to +40 °C
- Dimensions (diameter × height): 230 × 56 mm
- Weight: 0.46 kg

¹ 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.

² 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.

Use case



Ordering information

Name	Description
WEP-200L	WEP-200L wireless access point. Mounting kit.

Related products

Power injector Passive PoE 56 V.

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. WIDS/WIPS-SW option for one Eltex access point. Wireless network intrusion detection and prevention service.
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

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

eltex@eltex-co.ru

www.eltex-co.com

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.