- 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-2003)
- 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 of the features and services required by corporate clients. WEP-200L will become a universal solution for organizing a wireless network with a large number of users and high traffic (office, government agencies, conference rooms, 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 embedded omni-directional antennas makes WEP-200L a universal solution for corporate networks construction.

Security

WEP-200L uses up-to-date authentication and encryption technologies, that provide personal data protection and environment security of the corporate network. In particular, an individual dynamic key is used for each subscriber device working with WEP-200L.

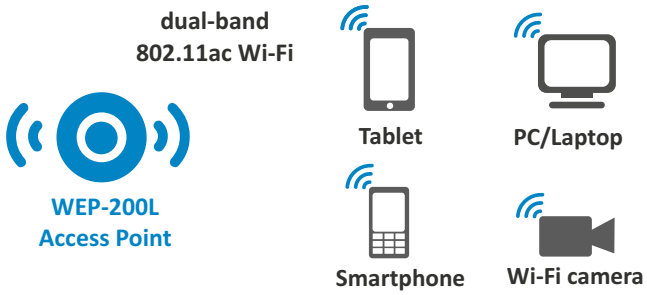
Performance

To ensure stable and continuous operation of the device, the high-performance processors are used to achieve high data processing rates.

Power supply

The PoE technology makes it possible to install equipment in any place, regardless of the power supply source location. That allows reducing the number of cables used and lowering the total cost. The PoE technology makes installation easier and faster.

Application diagram



Interface configuration

Ethernet	Wi-Fi
1×1G	802.11a/b/g/n/ac

CE — WEP-200L complies with CE requirements.

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
– 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
– Detection of access points from other vendors
– Spectrum analyzer
– WDS support
– 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

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 channels[1]
– 802.11b/g/n: 1–13 (2402–2482 MHz)
– 802.11a/n/ac: 36–64 (5170–5330 MHz)
  100–144 (5490–5730 MHz)
  149–165 (5735–5835 MHz)

Data rate[2]
– 802.11a: up to 54 Mbps
– 802.11b: up to 11 Mbps
– 802.11g: up to 54 Mbps
– 802.11n: 2.4 GHz — up to 300 Mbps,
  5 GHz — up to 600 Mbps
– 802.11ac: up to 1733 Mbps

Maximum power of the transmitter[1]
– 2.4 GHz: 18 dBm
– 5 GHz: 20 dBm

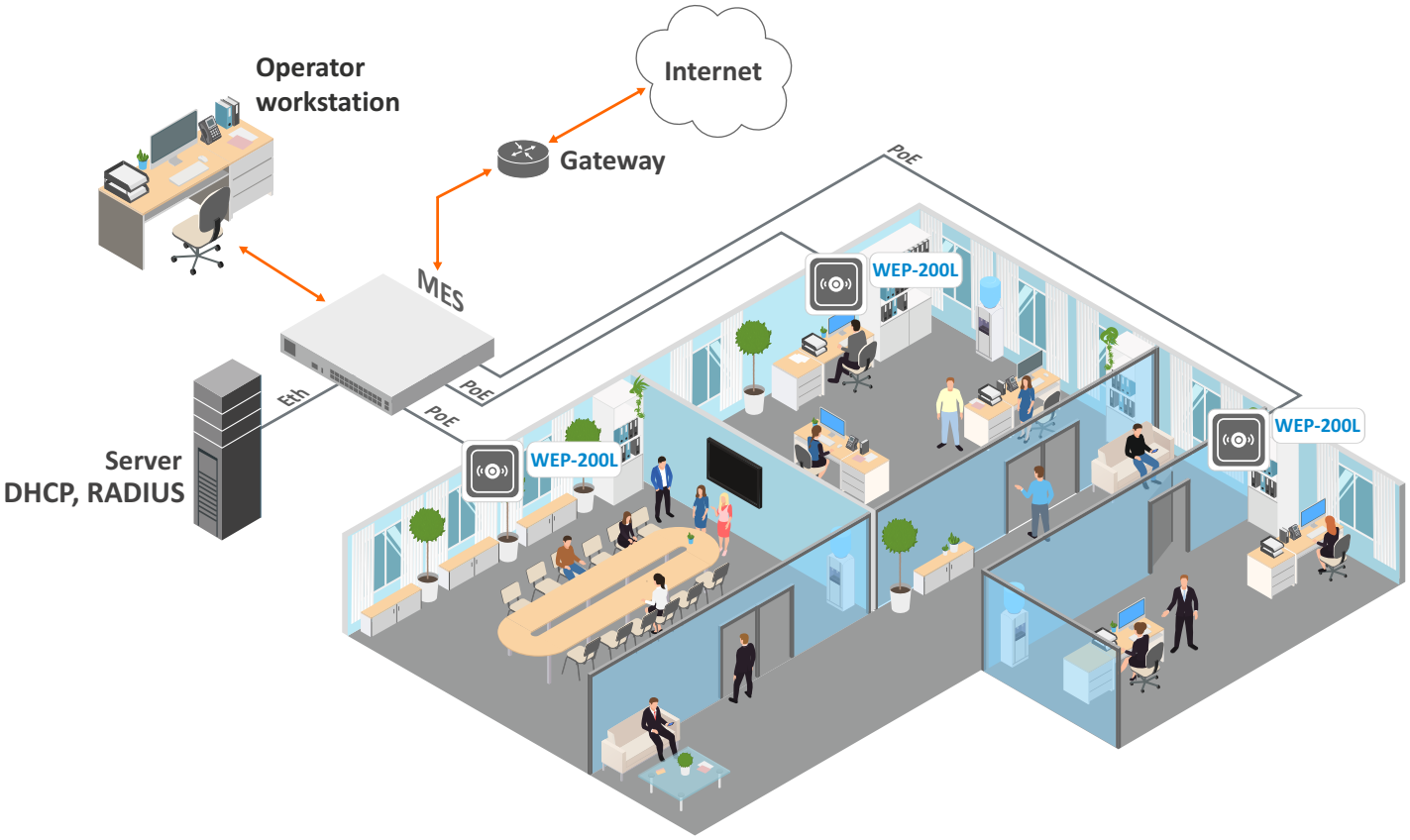
Built-in antenna gain
– 2.4 GHz: ~3 dBi
– 5 GHz: ~3 dBi

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.

Application diagram



Ordering information

Name	Description
WEP-200L	WEP-200L wireless access point. Mounting kit.
Related products	
Power injector Passive PoE 56V	
Related software	
Wi-Fi controller	WLC feature. Software controller with built-in AAA solution and captive portal for one ELTEX access point

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About ELTEX

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.