- Dual-band access point
- Support for 802.11be
- Radio interface with MU-MIMO 2×2 support
- Multi-Link Operation (MLO)
- PoE+ (IEEE 802.3at)
- Seamless roaming
- Up-to-date authentication and encryption means

Solution for enterprises

WEP-50L is a modern Wi-Fi 7 access point for building a reliable and high-performance wireless network in corporate environments. This device provides high data transfer rates, a stable connection, and low latency, helping to quickly deploy Wi-Fi infrastructure for offices, government agencies, hotels, meeting rooms, and other facilities.

Scalability

WEP-50L enables flexible expansion of the wireless network, extending coverage area and increasing the number of connectable devices without complicating the infrastructure. The easy deployment and high efficiency make it a practical solution for expanding enterpise networks.

Wireless connection

With Wi-Fi 7 support, the WEP-50L access point delivers data transfer rates of up to 688 Mbps (2.4 GHz) and up to 2882 Mbps (5 GHz). The MU-MIMO 2×2 support improves network efficiency and ensures stable client device connectivity in everyday enterprise scenarios.

Security

The modern authentication and encryption mechanisms ensure personal data protection and enterprise network security. WEP-50L meets current wireless access security requirements.

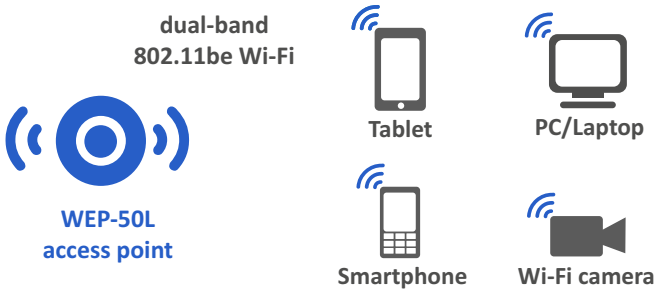
Performance

The WEP-50L hardware platform ensures stable operation of the device under daily load, maintaining high-quality wireless connections for office applications, video communications, and cloud services.

Power supply

The PoE support simplifies installation, reduces costs, and allows access points to be placed in optimal locations regardless of the power source location.

Application diagram



Interface configuration

Ethernet	Wi-Fi
1×2.5G	802.11a/b/g/n/ac/ax/be
1×1G	

Features and capabilities

Interfaces
– 1 port of 10/100/1000/2500BASE-T (RJ-45) with PoE
– 1 port of 10/100/1000BASE-T (RJ-45)
– Wi-Fi 2.4 GHz IEEE 802.11b/g/n/ax/be
– Wi-Fi 5 GHz IEEE 802.11a/n/ac/ax/be

WLAN capabilities
– Support for IEEE 802.11a/b/g/n/ac/ax/be
– Support for 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
– 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 functions
– Bandwidth limiting
– Configuring WMM (EDCA) parameters for radio interfaces

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

Wireless interface specifications
– Frequency range: 2400–2483.5 MHz, 5150–5350 MHz, 5470–5850 MHz
– BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM, 4096QAM modulations
– Built-in omnidirectional antennas
– Support for MU-MIMO 2×2
– Multi-Link Operation (MLO)
– Support for OFDMA
– Bandwidth: 20, 40 MHz for 2.4 GHz;
20, 40, 80 and 160 MHz for 5 GHz

Operating channels[1]
– 802.11b/g/n/ax/be: 1–13 (2401–2483 MHz)
– 802.11a/n/ac/ax/be: 36–64 (5170–5330 MHz)
100–144 (5490–5730 MHz)
149–165 (5735–5835 MHz)

Data rate[2]
– 2.4 GHz, 802.11be: 688 Mbps
– 5 GHz, 802.11be: 2882 Mbps

Maximum power of the transmitter[1]
– 2.4 GHz: 20 dBm
– 5 GHz: 24 dBm

Built-in antenna gain
– 2.4 GHz: ~4 dBi
– 5 GHz: ~6 dBi

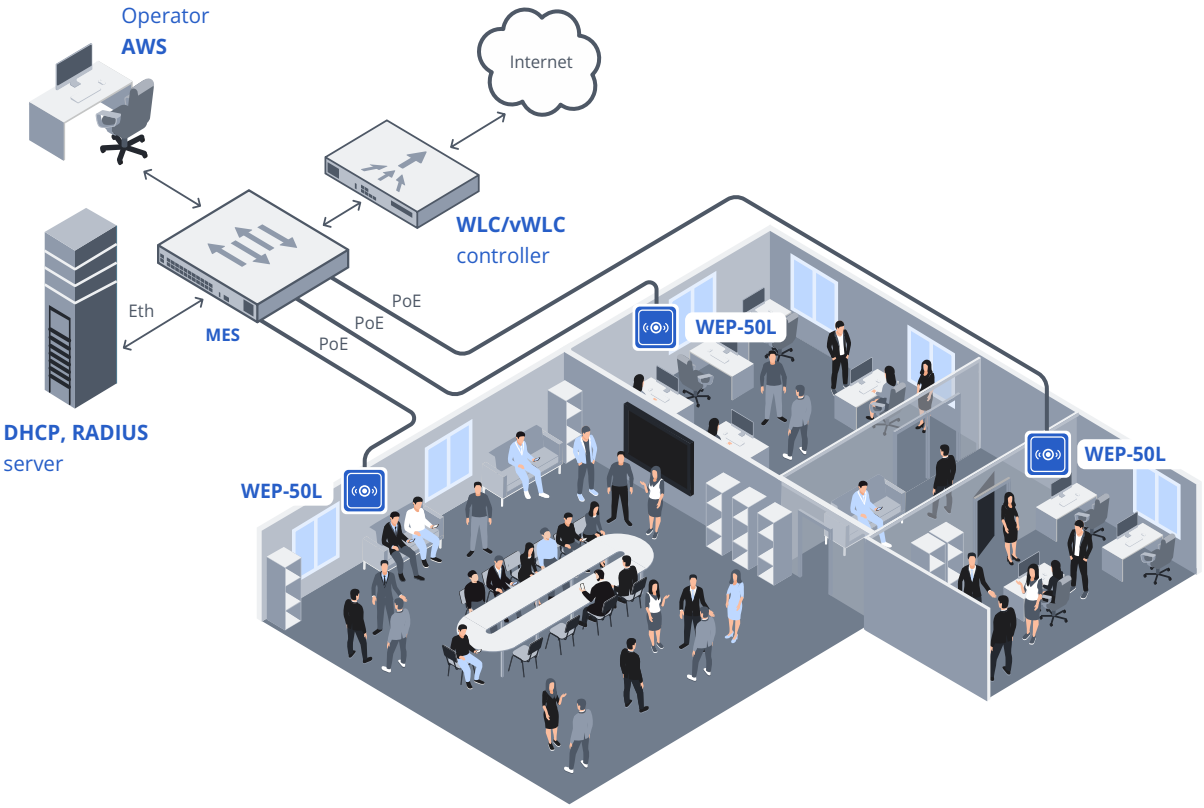
Receiver sensitivity
– 2.4 GHz: up to -94 dBm
– 5 GHz: up to -95 dBm

Clients
– Maximum number of concurrent connections: 119

Physical specifications
– Power consumption: no more than 17 W
– 128 MB SPI-NAND Flash
– 512 MB DDR3 RAM
– Power supply: PoE+ 48 V/56 V (IEEE 802.3at-2009)
– Operating temperature: from +5 to +40 °C
– Dimensions (diameter × height): 238 × 56.5 mm
– Weight: 0.6 kg
– Armstrong, threaded rod, ceiling/wall mount
– VESA size: 100 × 100

[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-50L	WEP-50L wireless access point. Mounting kit.

Related products

Power injector Passive PoE 56 V.

Wi-Fi controllers

WLC hardware controllers	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	SoftWLC 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.

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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.