- Dual band access point
- Support for 802.11ax
- Radio interface with MU-MIMO 2 × 2 support
- PoE power supply (IEEE 802.3af)
- Seamless roaming
- Up-to-date authentication and encryption means
- IoT Hub (for WEP-30L-Z only)

Solution for enterprises

WEP-30L, WEP-30L-Z are new generation Wi-Fi 6 access points that will provide maximum bandwidth and stable wireless connection for all connected devices. With high speed, low latency, energy efficiency, increased bandwidth and extended range, the new access points of 802.11ax standard support a broader set of applications that require maximum performance in demanding enterprise environments. The new access points will be able to provide many additional services compared to previous Wi-Fi standards.

WEP-30L and WEP-30L-Z represent 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-30L and WEP-30L-Z allow 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 802.11ax standard the WEP-30L and WEP-30L-Z access points provide 574 Mbps (2.4 GHz) + 1201 Mbps (5 GHz) data rates. The use of MU-MIMO technology and built-in omnidirectional antennas makes WEP-30L and WEP-30L-Z 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.

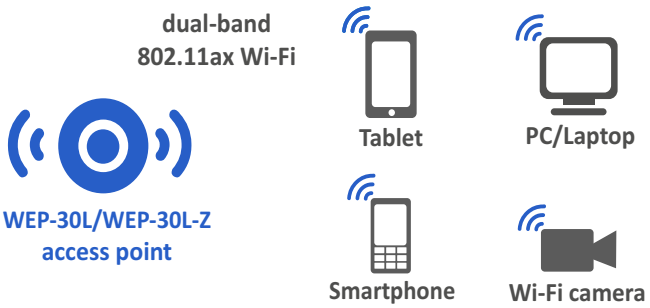
Performance

The high-performance processors are used in the devices in order to provide reliability and 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	IoT
WEP-30L	1×2.5G	802.11a/b/g/n/ac/ax	-
WEP-30L-Z	1×2.5G	802.11a/b/g/n/ac/ax	+

CE – WEP-30L complies with CE requirements.

Features and capabilities

Interfaces
– 1 port of 10/100/1000/2500BASE-T (RJ-45) with PoE support
– Wi-Fi 2.4 GHz IEEE 802.11b/g/n/ax
– Wi-Fi 5 GHz IEEE 802.11a/n/ac/ax
– Z-Wave is a radio interface for IoT ecosystem management (for WEP-30L-Z only)

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
– WDS
– MESH
– Auto channel selection
– APSD
– Support for client mode (STA)
– BSS coloring
– EIRP power control

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
– IPv6
– LLDP

QoS functions
– 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
– Support for WIDS/WIPS[1]

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 MU-MIMO 2×2
– Support for OFDMA
– Bandwidth: 20, 40 MHz for 2.4 GHz
20, 40 and 80 MHz for 5 GHz

Operating channels[2]
– 802.11b/g/n/ax: 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 rate[3]
– 2.4 GHz, 802.11ax: 574 Mbps
– 5 GHz, 802.11ax: 1201 Mbps

Maximum effective isotropic radiated power (EIRP)[1]
– 2.4 GHz: 23 dBm
– 5 GHz: 23 dBm

Maximum power of the transmitter[2]
– 2.4 GHz: 20 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 -95 dBm
– 5 GHz: up to -95 dBm

Number of clients
– Maximum number of concurrent connections:
– 2.4 GHz: 120
– 5 GHz: 120

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 °C to +40 °C
– Dimensions (diameter × height): 230 × 56 mm
– Weight: 0.5 kg

[1] Support for WIDS/WIPS functionality is provided under license.
[2] 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.
[3] 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-30L	WEP-30L Wi-Fi access point. Mounting kit.
WEP-30L-Z	WEP-30L-Z Wi-Fi 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 feature. Software controller with built-in AAA solution and captive portal for one Eltex access point. Airtune feature 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.