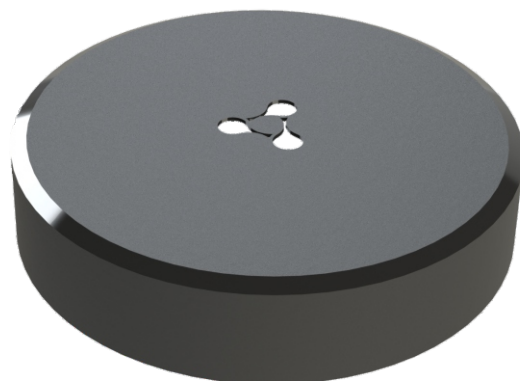**ELTEX**
Integrated Networking Solutions

— **Dual band access point with support for 802.11ac**

— **Radio interface with MIMO 2x2 support**

— **DC 5V power supply**

— **Up to 20 clients per an access point**

— **Up-to-date authentication and encryption means**

Solution for enterprise

WEP-1L provides easy and secure access to a high-performance wireless network that combines numerous 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 you to change 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 300 Mbps (at 2.4 GHz) and 867 Mbps (at 5 GHz) data rates.

The use of MIMO technology and embedded omnidirectional antennas makes WEP-1L a universal solution for corporate networks construction.

Security

WEP-1L provides personal data protection and corporate environment security due to the support for modern authentication technologies. Particularly, it uses a dynamic key that is unique for each active user station.

Performance

High-performance processors are used in the devices in order to provide reliability and high data processing rates.

Application diagram

dual-band
802.11ac Wi-Fi

Tablet

PC/Laptop

**WEP-1L
access point**

Smartphone

Wi-Fi camera
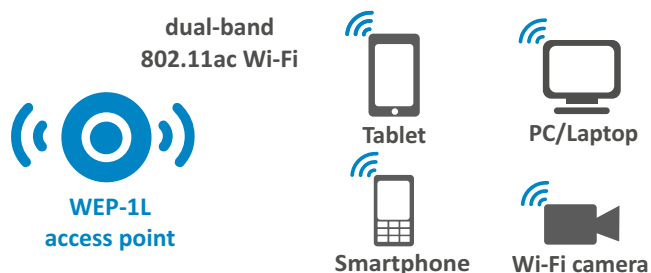
WEP-1L interface configuration

Name	Ethernet	Wi-Fi
WEP-1L	1x1G	802.11a/b/g/n/ac

ELTEX
Integrated Networking Solutions

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
– 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
– 8 virtual access points
– External access points detection
– APSD

Network features
– Automatic speed negotiation, duplex mode negotiation
   and MDI-MDI-X switch-over
– Users roaming 802.11r/k
– VLAN support (Access, Trunk, General)
– 802.1X authentication support
– DHCP client
– GRE
– GRE over IPsec
– 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

Security
– Centralized autorization via RADIUS server (WPA/WPA2
   Enterprise)
– WPA/WPA2 encryption
– Support for Captive Portal

Wireless interface specifications
– Frequency range 2400–2483.5 MHz, 5150–5850 MHz
– DSSS, CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM
   modulations
– Support for MIMO 2x2
– 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 (5170–5320 MHz)
                        100–144 (5490–5720 MHz)
                        149–165 (5745–5835 MHz)

Data rate[2]
– 802.11a: up to 54 Mbps
– 802.11b: up to 11 Mbps
– 802.11g: up to 54 Mbps
– 802.11n: up to 300 Mbps
– 802.11ac: up to 867 Mbps

Receiver sensitivity
– 2.4 GHz: up to -94 dBm
– 5 GHz: up to -92 dBm

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

Physical specifications
– Maximum power consumption – 7 W
– 32 MB Flash
– 128 MB RAM
– Power supply:
     – 5.3V DC, 2A power adapter
– Operating temperature from +5^{0}C to +40^{0}C
– Dimension (diameter x height): 100x23 mm

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[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 802.11n/ac standard. 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 on the network coverage range.

Application diagram
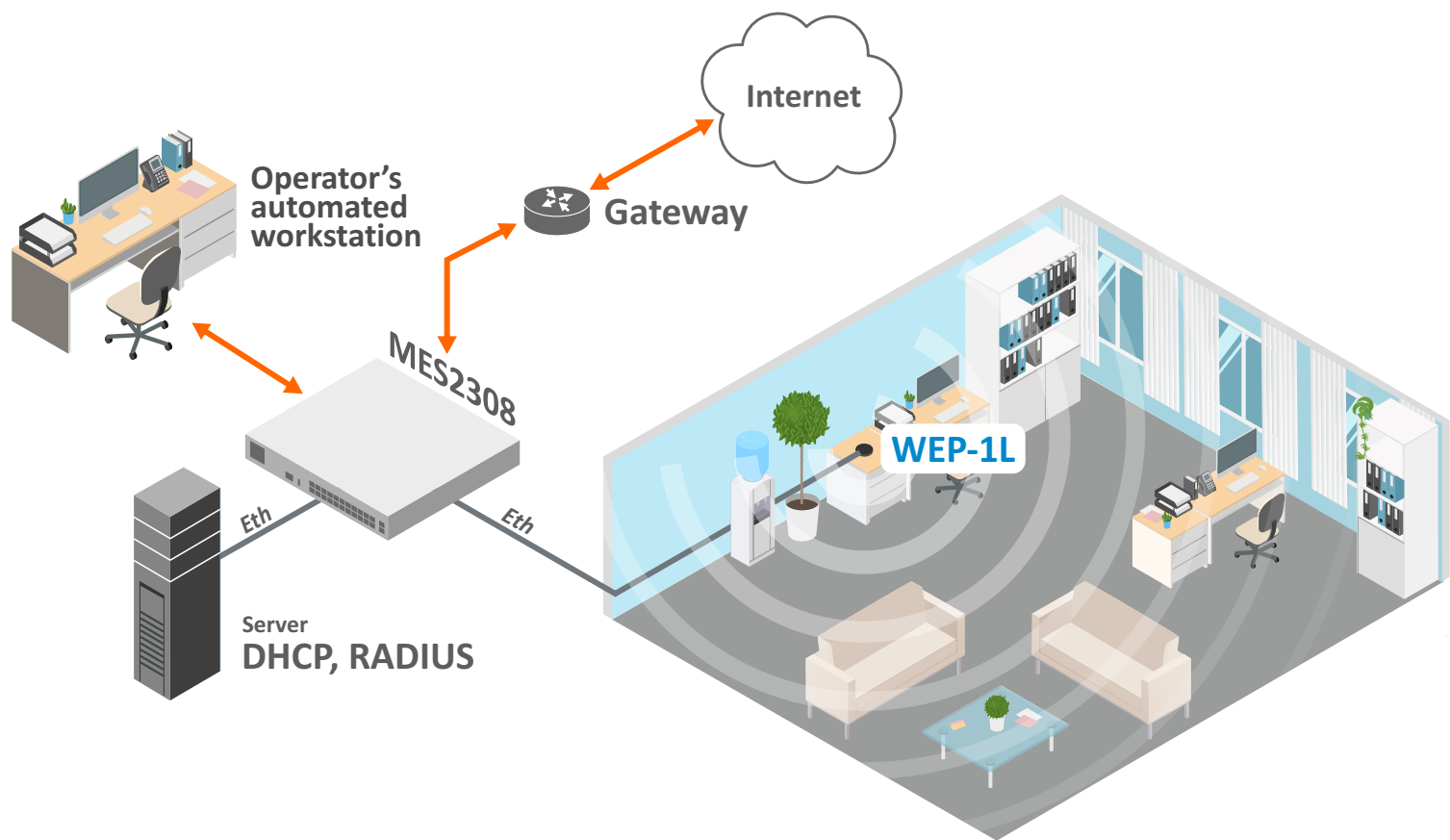
Ordering information

Name	Description
WEP-1L	WEP-1L wireless access point, 802.11a/b/g/n/ac, 2.4 GHz, 5 GHz; radio interface with MIMO 2x2; 1 port of 10/100/1000BASE-T (RJ-45)

About ELTEX

Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with more than 25 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.