

- Dual band access point with support for 802.11ac (5G Wi-Fi)
- Power supply: PoE+ (IEEE 802.3at)
- Operation in a cluster without a dedicated server (up to 64 devices)
- Seamless roaming
- Up-to-date authentication and encryption means



Solution for enterprise

WEP-2ac provides easy and secure access to high-performance wireless network that combines numerous features and services required by corporate clients.

WEP-2ac is a universal solution for organization of wireless networks in highly crowded areas and high traffic environments (offices, state institutions, conference halls, laboratories, hotels, etc.).

Wireless connection

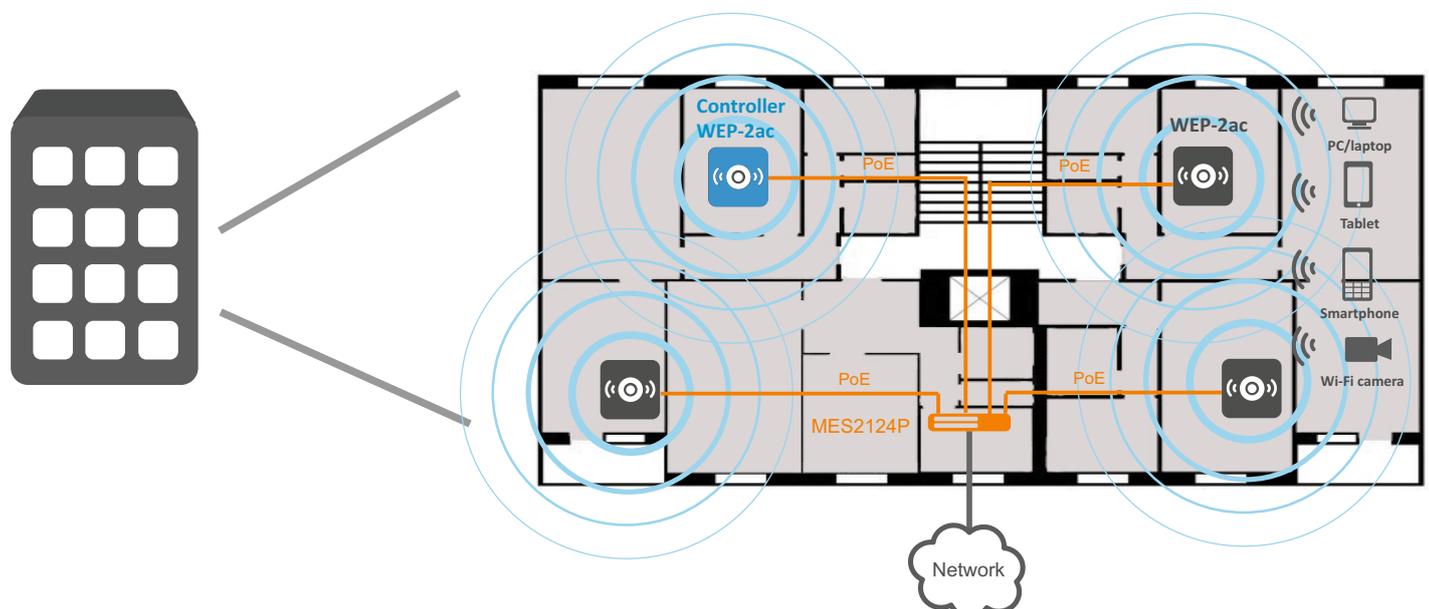
Due to IEEE 802.11n/ac standards support, the WEP-2ac access point provides 867 Mbps (at 5 GHz) and 300 Mbps (at 2.4 GHz) data rates.

The use of MIMO technology and embedded omnidirectional antennas makes WEP-2ac a universal solution for corporate networks construction.

Security

WEP-2ac 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 client.

Application diagram



Performance

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 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.

Interface configuration

RJ-45	Wi-Fi
1×1G	802.11a/b/g/n/ac

Features and capabilities

Interfaces

- 1 Ethernet port 10/100/1000BASE-T (RJ-45)
- Console (RJ-45)
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n
- Wi-Fi 5 GHz IEEE 802.11b/g/n

WLAN capabilities

- Support for IEEE 802.11a/b/g/n/ac
- Data aggregation, including A-MPDU (Tx/Rx) и A-MSDU (Rx)
- WMM-based packet priorities and planning
- Dynamic frequency selection (DFS)
- Support for hidden SSID
- 32 virtual access points
- External access points detection
- APSD
- WDS

Network features

- Automatic speed negotiation, duplex mode negotiation and MDI/MDI-X switch-over
- VLAN support
- DHCP client
- LLDP support
- ACL support
- IPv6 support

Cluster mode operation

- Cluster creation with the capacity of up to 64 access points
- Load balancing among access points
- Automatic synchronization of access points configurations in a cluster
- Single Management IP – a unified address for access points management in a cluster
- Automatic frequency channel allocation for multiple access points
- Authentication via RADIUS server

QoS functions

- Packet priorities and planning based on profiles
- Bandwidth limiting for each SSID
- Modification of WMM parameters for each radio interface

Security

- Centralized authorization via RADIUS server (802.1X WPA/WPA2 Enterprise)
- WPA/WPA2 encryption
- Captive Portal support
- Authorization via RADIUS server at a login
- E-mail notifications on system events

Wireless interface specifications

- Frequency range 2400–2480.3 MHz; 5150–5350 MHz, 5470–5850 MHz
- BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
- Embedded omnidirectional antennas
- Support for 2×2 MIMO

Active channels¹

- 802.11b/g/n: 1–13 (2412–2472 MHz)
- 802.11a/n/ac: 36–64 (5170–5330 MHz)
100–144 (5490–5730 MHz)
149–165 (5735–5835 MHz)

Data transfer rate²

- 802.11n: 300 Mbps
- 802.11ac: 867 Mbps

Maximum power of the transmitter

- 2.4 GHz: up to 18 dBm²
- 5 GHz: up to 21 dBm²

Built-in antenna gain

- 2.4 GHz: up to 5 dBi
- 5 GHz: up to 5 dBi

Receiver sensitivity

- 2.4 GHz: up to -98 dBm
- 5 GHz: up to -94 dBm

Physical specifications

- Power consumption up to 13 W
- 128 MB NAND Flash
- 256 MB RAM DDR3
- Power supply: PoE+ 48 V/54 V (IEEE 802.3at-2009)
- Operating temperature from +5 to +40 °C
- Dimensions (diameter × height): 200 × 40 mm

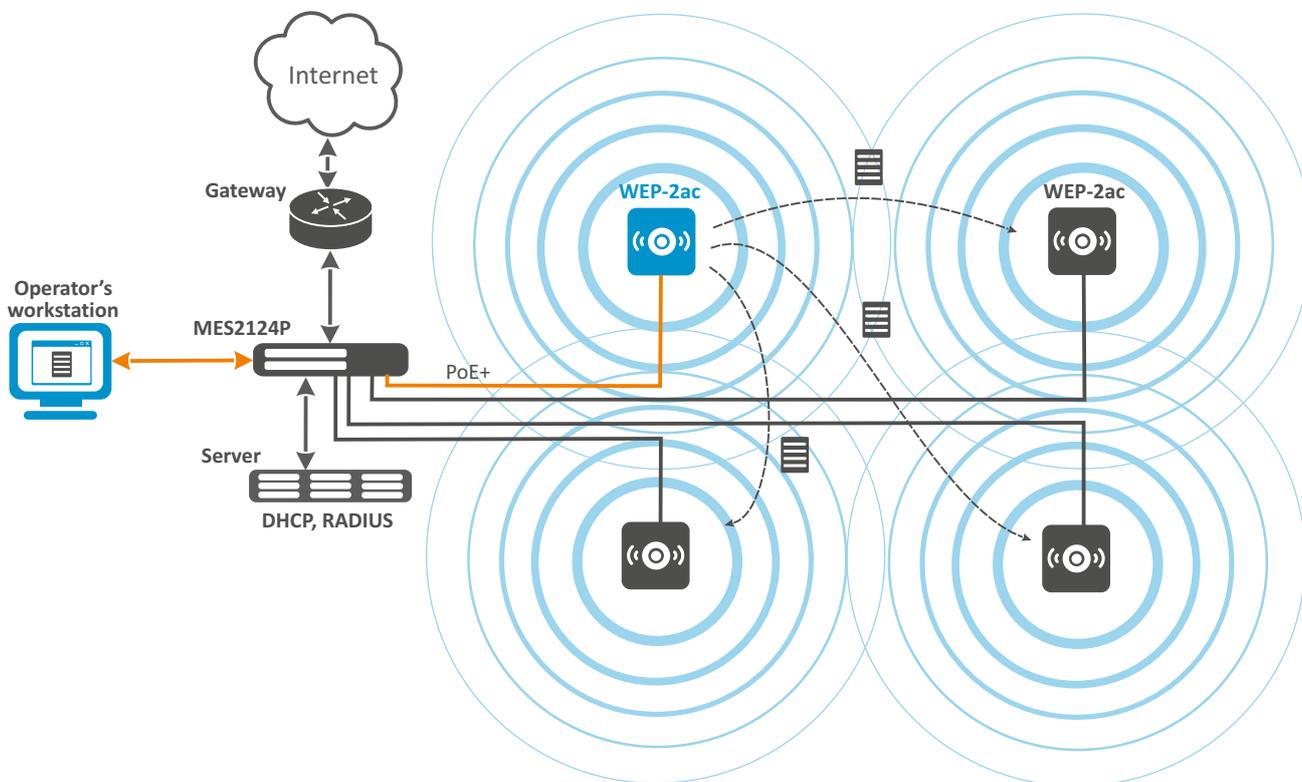
Configuration

- Software update and configuration via DHCP Autoprovisioning
- Remote management via Telnet, SSH
- Web interface
- SNMP

¹The number of channels and the value of the maximum output power will vary according to the rules of radio frequency regulation in your country.

²The maximum wireless data rate is defined according to IEEE 802.11 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-2ac	WEP-2ac access point. Mounting kit.

Related products

Power injector PoE+

Related software

Wi-Fi controller	WLC feature. Software controller with built-in AAA solution and captive portal for one ELTEX access point; Airtune feature. Service for Radio Resource Management (RRM) for one ELTEX access point; WIDS feature. Service for wireless network intrusion prevention 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.