

- High-performance solution based on the Broadcom chipset
- Dual band Wi-Fi 802.11ac
- Power supply: PoE+ (IEEE 802.3at)
- Cluster operations without dedicated server (up to 64 devices)
- Seamless roaming
- Up-to-date authentication and encryption means



Solution for enterprise

WEP-12ac provides high-performance, secure, accessible and easy to use wireless network that combines numerous features and services required by corporate clients. WEP-12ac is a universal solution that may be used for organization of wireless networks in highly crowded areas and high traffic environments (offices, state institutions, conference halls, laboratories, hotels, etc.)

Wireless Connection

The WEP-12ac provides 1300 Mbps (5GHz) + 450 Mbps (2.4 GHz) data rate as it supports IEEE 802.11n/ac standards. Furthermore, the WEP-12ac supports MIMO technology and has omnidirectional antennas that makes it a universal solution for public networks organization.

Security

The WEP-12ac provides personal data protection and corporate environment security due to the support of up-to-date authentication technologies. Particularly, it uses a dynamic key that is unique for each active client.

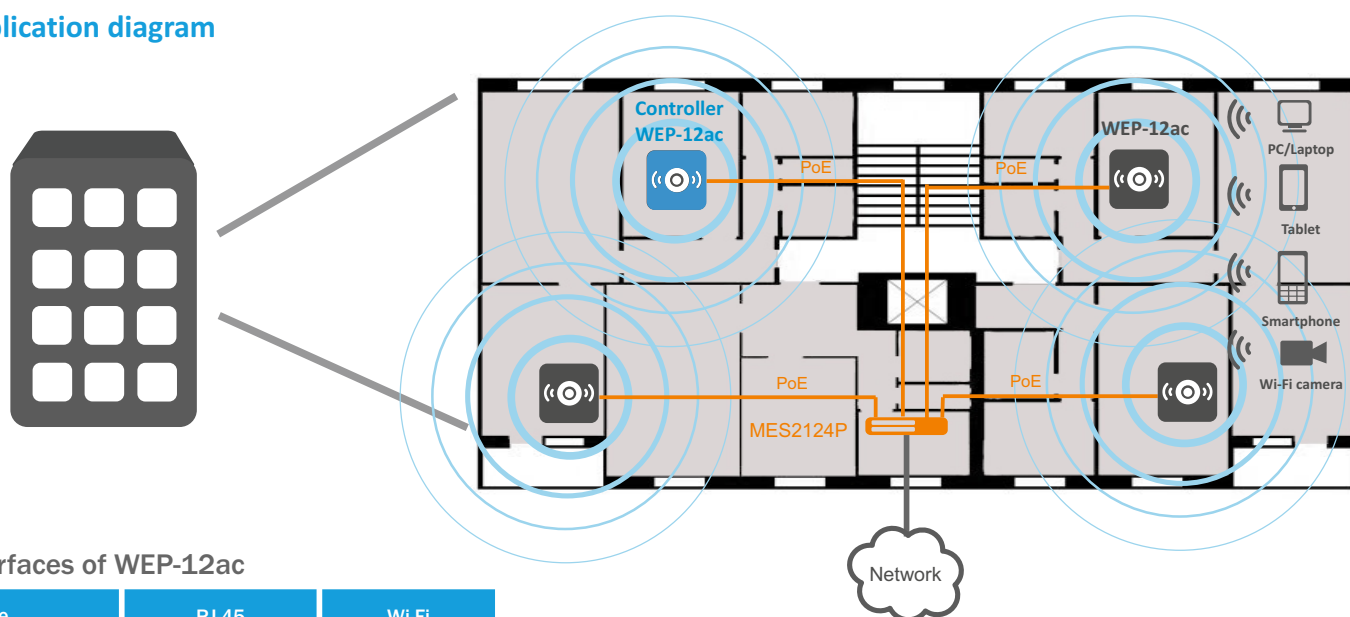
Performance

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

Power Supply

The PoE+ technology makes it possible to install the equipment virtually anywhere, regardless of the power supply location, reduce total cost by discarding power cables and perform the installation easier and faster. When sequential connection method (point-to-point) is used, device should be powered with AC power adapter connected to the electrical network or separate power line.

Application diagram



Interfaces of WEP-12ac

Name	RJ-45	Wi-Fi
WEP-12ac	2x1G	802.11a/b/g/n/ac

Technical features

Interfaces

- 2 x Ethernet 10/100/1000Base-T (RJ-45)
- Console (RJ-45)

WLAN Capabilities

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

Network features

- Automatic speed negotiation, duplex mode negotiation, and MDI/MDI-X switch-over
- VLAN support
- 802.1X authentication support
- DHCP client
- IPv6 support
- LLDP support
- ACL support

Cluster mode operation

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

QoS functions

- Profile-based packet priorities and planning
- Bandwidth restriction for each SSID
- Modification of WMM parameters for each radio frequency interface

Security

- Centralized authorization via RADIUS server (WPA Enterprise)
- WPA/WPA2 encryption
- Captive Portal support
- E-mail notifications about system events

Wi-Fi Wireless Interface Specifications

- Frequency range: 2400–2480 MHz, 5150–5850 MHz
- CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
- Embedded dual-band antennas
- 3x3 MIMO support
- Two embedded Broadcom BCM43460 chips (IEEE 802.11b/g/n/a/ac)

Active Channels

- 802.11b/g/n: 1–13 (2412–2472 MHz)¹
- 802.11a/n/ac: 36–64 (5180–5320 MHz),
100–144 (5500–5720 MHz),
149–165 (5745–5825 MHz)¹

Data transfer rate²

- 802.11n: 450 Mbps
- 802.11ac: 1300 Mbps

Receiver sensitivity

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

Maximum power of the transmitter

- 2.4 GHz: up to 19 dBm¹
- 5 GHz: up to 19 dBm¹

Physical specifications

- Power consumption below 14W
- Broadcom BCM53016/BCM58522 processor
- 128 MB NAND Flash
- 256 MB RAM DDR3
- Power supply:
 - PoE+ 48V/54V (IEEE 802.3at-2009).
 - 12 V DC
- Operating temperature from +5°C to 40°C
- Dimensions (WxHxD): 224x42x235 mm

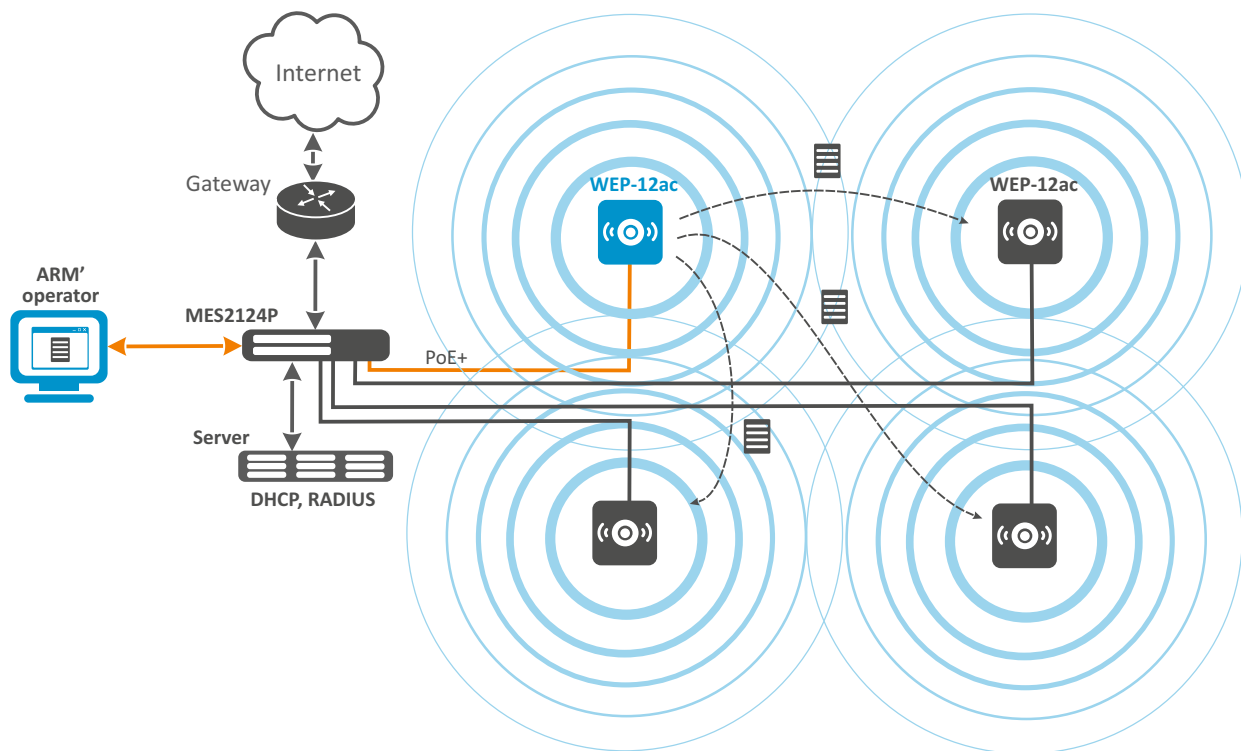
Configuration

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


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	Image
WEP-12ac	Wi-Fi access point WEP-12ac. Mounting kit. Adapter 12 V.	
	Power injector (PoE+) 10/100/1000Base-T	

SoftWLC controller. License for 1 access point (demo version for 3 access points)

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About Eltex

Eltex company is a leading Russian developer and manufacturer of telecommunication equipment with 25 years of history. Integrity of solutions and seamless integration capability into Customer infrastructure is a priority area of company development.