

- 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.

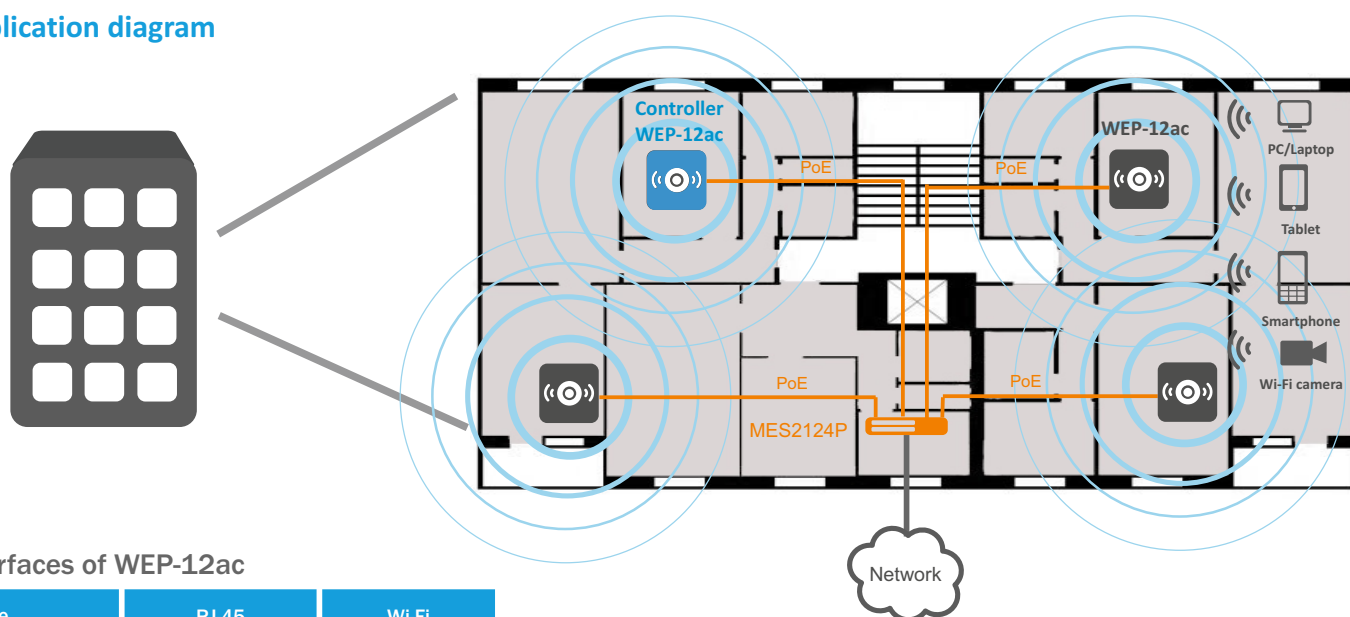
Performance

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

Wireless interface specifications

- Frequency range: 2400–2485 MHz, 5150–5350 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: 2400–2485 MHz
- 802.11a/n/ac: 5150–5350 MHz
- Channel bandwidth: 20 MHz

Data transfer rate

- 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 20 dBm
- 5 GHz: up to 23 dBm
- Transmit power control

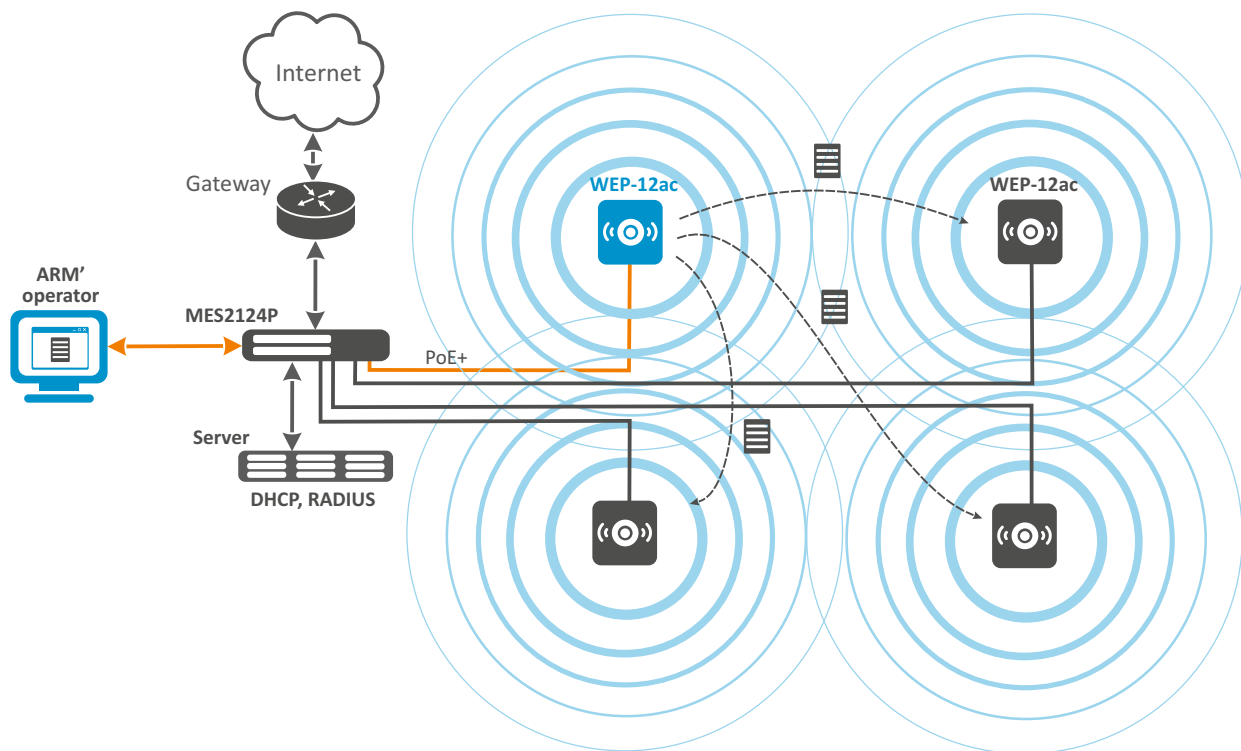
Physical specifications

- 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

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)

Contact us

+7 (383) 274 10 01
+7 (383) 274 48 48

eltex@eltex-co.ru

www.eltex-co.ru

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.