

- High-performance solution based on Broadcom chipset
- 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 accessible, easy-to-use, high-performance and secure 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 support for IEEE 802.11n/ac standards, 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.

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 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.

«Smart Home» controller*

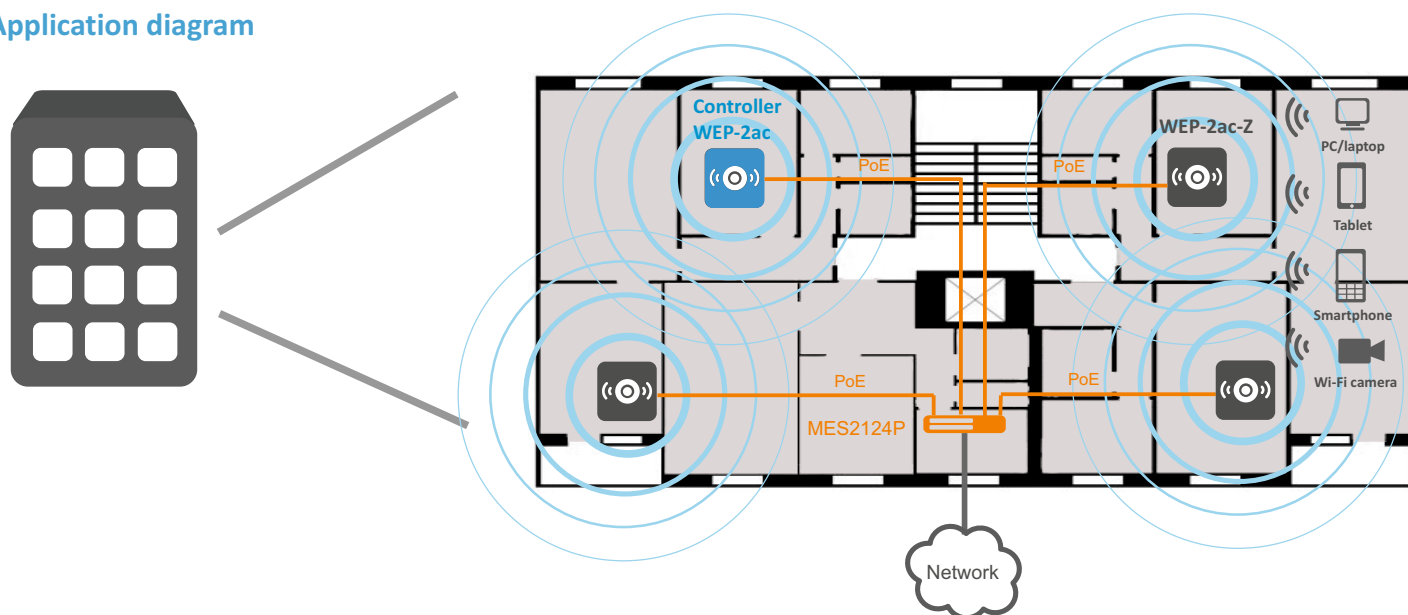
The device contains integrated controller for the «Smart Home» system. The controller provides interaction with sensors and detectors through the wireless Z-Wave channel.

*Only for WEP-2ac-Z

Interface configuration

Name	RJ-45	Wi-Fi	«Smart Home» management interface
WEP-2ac	1x1G	802.11a/b/g/n/ac	-
WEP-2ac-Z	1x1G	802.11a/b/g/n/ac	+

Application diagram



Features and capabilities

Interfaces

- 1 Ethernet port 10/100/1000Base-T (RJ-45)
- Console (RJ-45)
- «Smart Home» interface – radio interface for the «Smart Home» system management¹

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
- 802.1X authentication 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 (WPA Enterprise)
- WPA/WPA2 encryption
- Support for Captive Portal
- E-mail notifications on system events

Wireless interface specifications

- Frequency range 2400–2480 MHz, 5150–5850 MHz
- CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
- Embedded omnidirectional antennas
- Support for 2x2 MIMO
- Two embedded Broadcom chips: BCM47452 (IEEE 802.11a/n/ac) and BCM43217 (IEEE 802.11b/g/n)

Active channels²

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

Data transfer rate³

- 802.11n: 300 Mbps
- 802.11ac: 867 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 18 dBm²
- 5 GHz: up to 21 dBm²

Physical specifications

- Power consumption no more than 13 W
- Processor Broadcom BCM47452
- 128 MB NAND Flash
- 256 MB RAM DDR3
- Power supply: PoE+ 48V/54V (IEEE 802.3at-2009)
- Operating temperature from +5°C to +40°C

Configuration

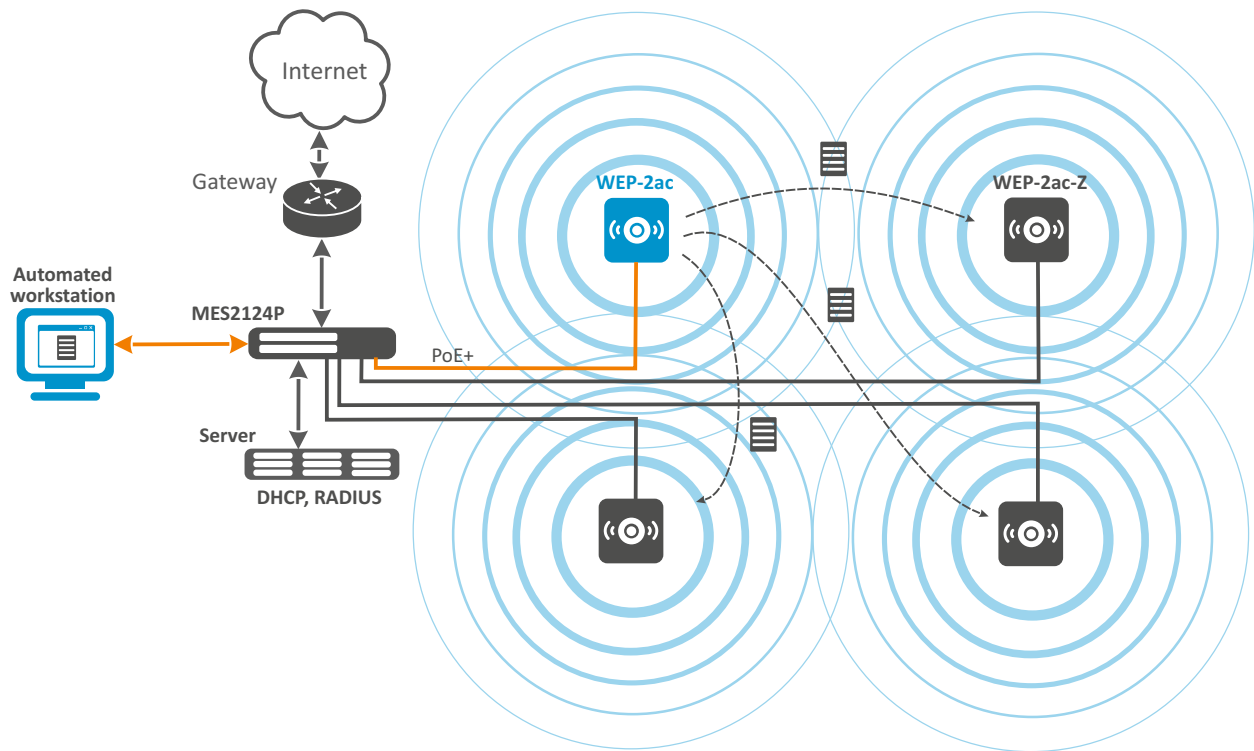
- Software update and configuration via DHCP Autoprovisioning
- Remote management via Telnet, SSH
- Web interface
- SNMP

¹For WEP-2ac-Z only.

²The number of channels and the value of the maximum output power will vary according to the rules of radio frequency regulation in your country.

³The 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-2ac	WEP-2ac access point. Mounting kit.	
WEP-2ac-Z	WEP-2ac-Z access point. Mounting kit.	

Related products

Power injector (PoE+) 10/100/1000 Base-T

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

Contact us

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Eltex 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.