

- High-performance solution based on Broadcom chipset
- 802.11 ac (5GWi-Fi) support
- PoE+, leased lines
- Work in a cluster without a dedicated server (up to 64 devices)
- Seamless roaming
- Modern means of authentication and encryption



Solution for businesses

WEP-2ac provides high-speed, secure, affordable and easy-to-use wireless network that combines a variety of features and services needed for corporate clients. WEP-2ac will become a universal solution for setting up a wireless network with a large number of users and high traffic (office, government offices, conference rooms, laboratories, hotels, etc.).

Wireless

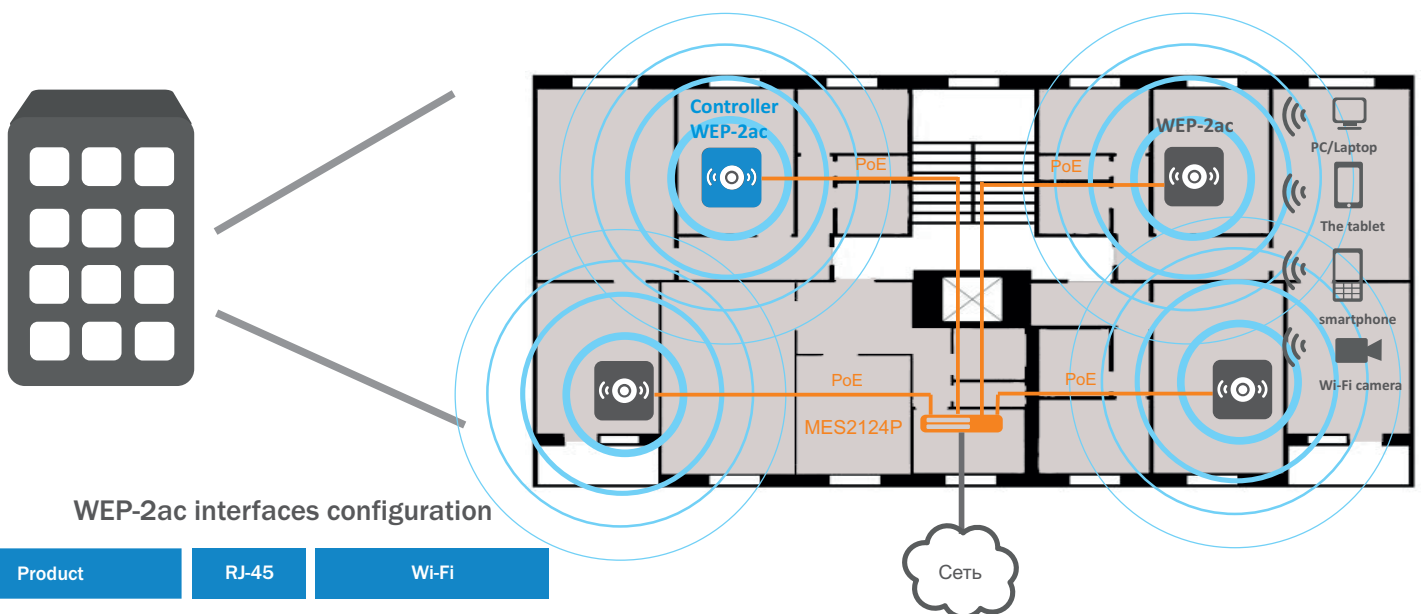
Due to IEEE 802.11 ac standard support the access point WEP-2ac provides data rates of up to 650 Mbit/s. Four dual-band antennas and large radius coverage (up to 200m) make WEP-2ac a universal access point when organizing a corporate network.

Security

For the corporate environment there are modern authentication and encryption technologies, which provide protection of personal data and the security of the corporate environment. In an enterprise environment a dynamic key is used individually for each client working at the moment.

Power supply

Support for PoE+ allows installation in any location, regardless of the location of power supplies, saves on the cost of power cables, makes installation easy and quick. Power is supplied from the mains via power adapter or a separate power cable when using sequential circuit of connecting devices "point-to-point".



WEP-2ac technical specifications

Interfaces

- 1 port Ethernet 10/100/1000 Base-T (RJ-45)
- Console (RJ-45)

WLAN features

- Supporting standards IEEE 802.11 a / b / g / n / ac
- Aggregation of data, including A-MPDU (Tx / Rx) and A-MSDU (Rx)
- Priorities and packet scheduling based on WMM
- Dynamic Frequency Selection (DFS)
- Supports of hidden SSID
- 32 virtual access points
- Finding a third-party access points
- APSD
- WDS

Networking features

- Speed auto-coordination, duplex mode and switching between MDI and MDI-X
- VLAN support
- Support for 802.1X authentication
- DHCP-Client
- LLDP
- ACL
- Support for IPv6

Operation in a cluster mode

- Organization of the cluster with up to 64 access points
- Load balancing between access points
- Automatic synchronization of configurations of access points in the cluster
- Single Management IP - a single address to control access points in the cluster
- Automatic allocation of frequency channels between APs
- Authentication via RADIUS-server

QoS features

- The priority and scheduling of packets on the basis of profiles
- Limiting bandwidth for each SSID
- Changing the WMM parameters for each radio interface

Security

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

The parameters of the wireless interface

- Frequency range 2400 - 2483.5 MHz, 4900 - 5850 MHz
- Modulation CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM
- Internal omnidirectional antenna
- Support for 2x2 MIMO
- The two integrated Broadcom BCM47452 chip (5 GHz, IEEE 802.11a/n/ac) and BCM43217(2.4 GHz, IEEE 802.11 b/g/n)

- Operating Channels
 - 802.11 b/g/n: 1-13 (2412-2472 MHz)¹
 - 802.11 a/n/ac¹:
 - 36-64 (5180 - 5320 MHz)
 - 100-144 (5500 - 5720 MHz)
 - 149-165 (5745 - 5825 MHz)
- The data rate, Mbit/s
 - 6, 9, 12, 18, 24, 36, 48, 54, MCS0-MCS15, MCS0-9 NSS1, MCS0-9 NSS2
 - 802.11 n: up to 144,4 Mbit/s (channel 20 MHz)
up to 300 Mbit/s (channel 40 MHz)
 - 802.11 ac: up to 866,7 Mbit/s (80 MHz)
- Receiver sensitivity
 - 2.4 GHz: up to -98 dBm
 - 5 GHz: up to -94 dBm
- Maximum transmitter power
 - 2.4 GHz: up to 18 dBm
 - 5 GHz: up to 21 dBm

Physical characteristics

- Broadcom BCM47452 processor
- 128 MB NAND Flash
- 256 MB of RAM DDR3
- Power: PoE + 48V / 54V (IEEE 802.3at-2009)
- Operating temperature 0 ° C to + 60 ° C

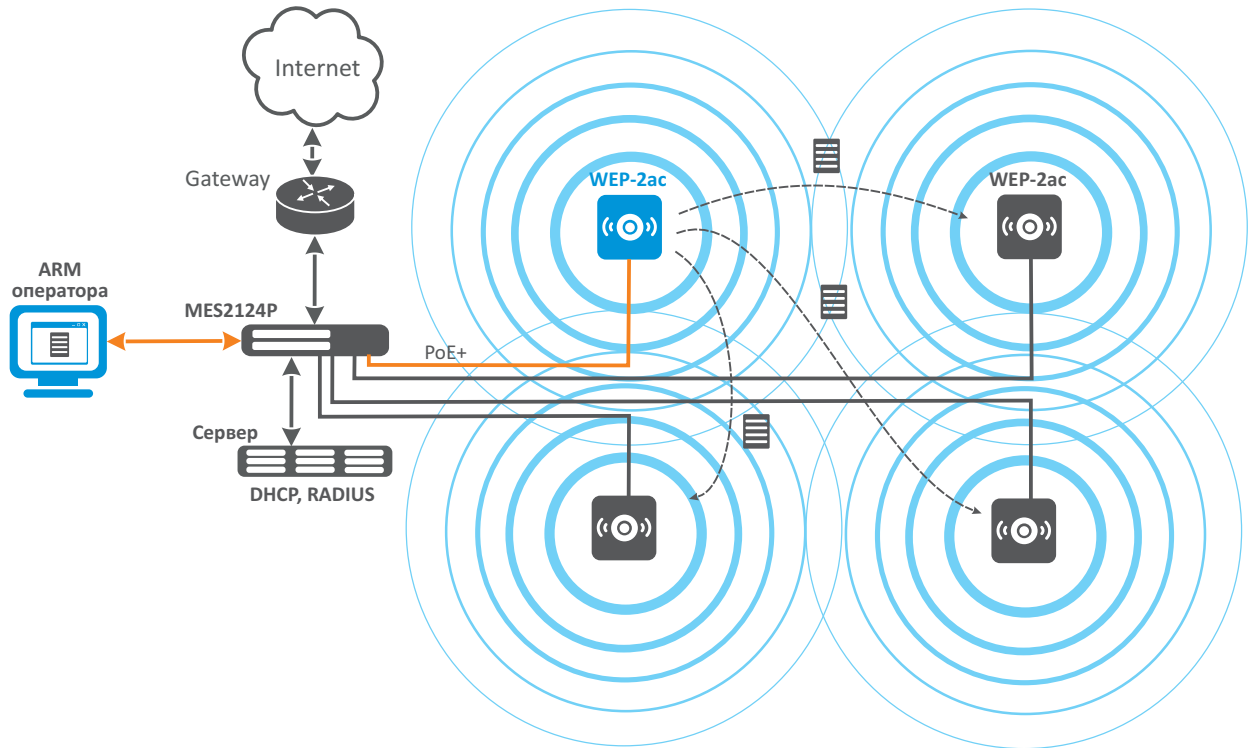
Configuring

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

¹ Set by regulator

Application diagram

Wireless network of Enterprise class



Supplied contents WEP-2ac

ID	Description
A1	WEP-2ac access point, access point wall/ceiling mounting set
A2	Power injector (PoE+) 10/100/1000 Base-T
A3	Soft-WLC controller, license for 1 AP (trial version for testing for 3 AP), please specify the number of AP on the order

About Eltex

For more than twenty years major Russian company Eltex Enterprise, Ltd been designing and manufacturing a wide range of telecommunications and networking equipment: GPON devices, Ethernet-switches, Service Routers, Wireless, VoIP-gateways, Softswitch & IMS, Set-top Boxes and much more.

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