

- High-performance solution based on Broadcom chipset
- 802.11 ac (5G Wi-Fi)
- Power supply: PoE, dedicated lines
- Cluster operations w/o dedicated server (up to 64 devices)
- Seamless roaming
- Recent methods of authentication and encryption



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 an 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

Due to IEEE 802.11ac standard support, WEP-12ac access point provides data transfer rates up to 1Gbps.

With six dual-band antennas and a large coverage range (up to 200m), WEP-12ac is a universal solution for corporate network projects.

Security

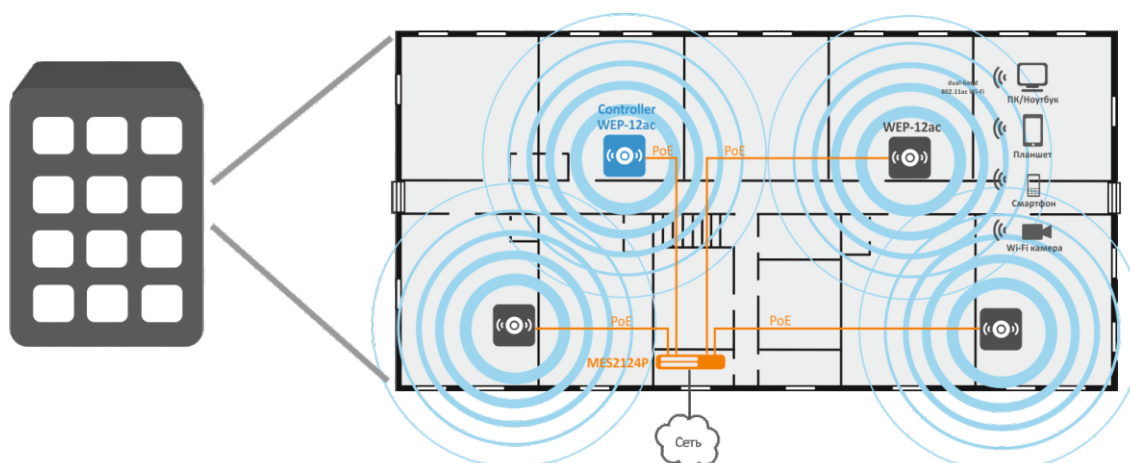
For corporate network environments modern authentication and encryption technologies are provided. They allow to protect personal data and corporate environment security.

Corporate environment uses a dynamic key that is unique for each currently active client.

Power Supply

With PoE+ technology support it is possible to install the equipment virtually anywhere regardless of the power supply location and to save on 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.



Technical specifications of WEP-12ac

Interfaces

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

WLAN Capabilities

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

Network features

- Automatic speed negotiation, duplex mode negotiation, and MDI/MDI-X switchover
- VLAN support
- 802.1X authentication support
- DHCP client
- Ipv6 support
- LLDP
- ACL

Cluster mode operation

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

QoS functions

- Profile-based packet priority 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
- System event e-mail notifications

Wi-Fi Wireless Interface Specifications

- Frequency range: 2400–2483.5MHz, 4900–5850MHz
- CCK, BPSK, QPSK, 16 QAM, 64 QAM, 256QAM modulation
- Internal Dual-band antennas
- 3x3 MIMO support
- Two integrated Broadcom BCM43460 chips (IEEE 802.11 b/g/n/a/ac)

Active Channels

- 802.11 b/g/n: 1–13 (2412–2472MHz)¹
- 802.11 a/n/ac: 36–64 (5180–5320MHz)
- 100–140 (5500–5700MHz),
- 149-165 (5745–5700MHz)¹

Data transfer rate, Mbps

- 6, 9, 12, 18, 24, 36, 48, 54, MCS0-MCS23, MCS0-8 NSS1, MCS0-9
- 802.11 n: 216.7Mbps (20MHz channel), 450Mbps (40MHz channel)
- 802.11 ac: 1300Mbps (80MHz)
- NSS3 (20&40MHz channels)

Receiver sensitivity

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

Maximal output power²

- 2.4 GHz: до 20 dBm
- 5 GHz: до 20 dBm

Maximum power of the transmitter

- 2.4 ГГц: до 19 dBm¹
- 5 ГГц: до 19 dBm¹

Physical specifications

- Power consumption below 16W
- Broadcom BCM53016 processor
- 128MB NAND Flash
- 256MB RAM DDR3
- Power supply:
 - PoE+ 48V/54V (IEEE 802.3at-2009).
 - 12V DC
- Operating temperature from +50°C to 400°C

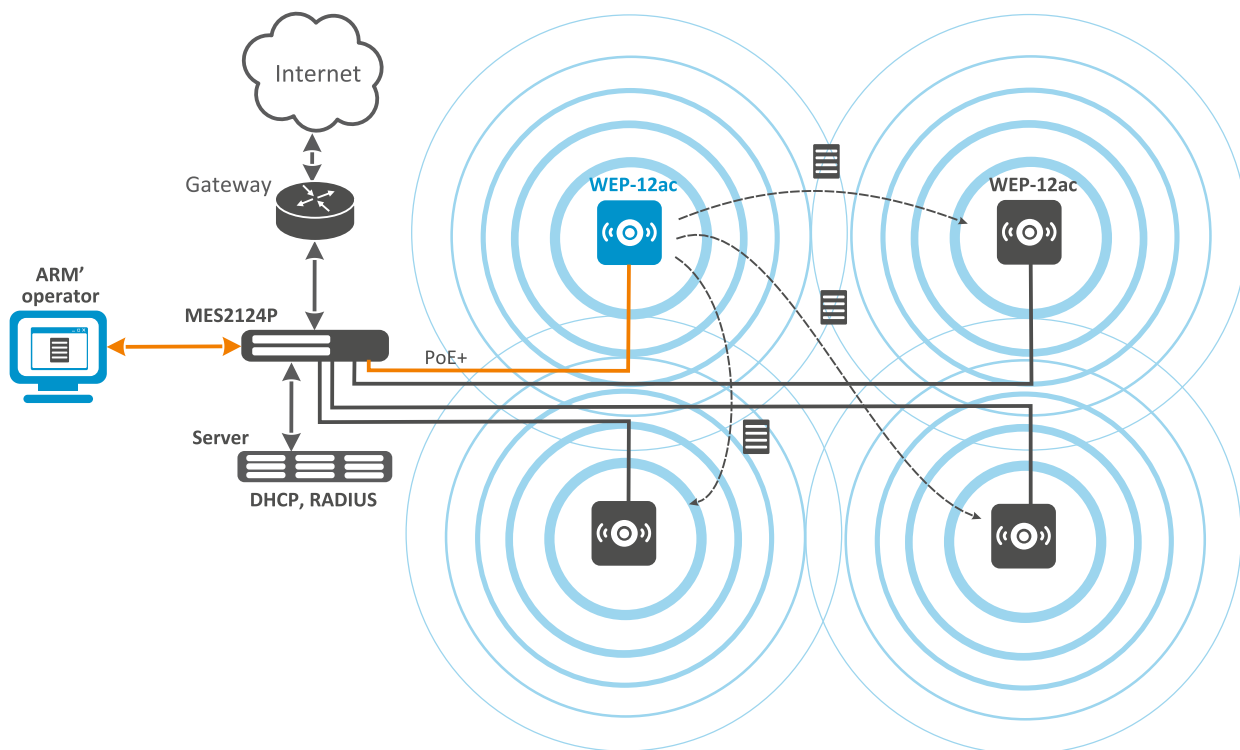
Configuration

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

¹ Controlled by regulator component

SCHEME OF USING

Wireless Access Point WEP-12ac



Ordering information

| Name | Description |
|------|--|
| A1 | Access point WEP-12ac, mounting set to ceiling/wall for access point, power supply 12V |
| A2 | Power injector (PoE +) 10/100/1000 Base-T |
| A3 | Controller Soft-WLC, one license per one access point (demoverision for test includes three access points), please point at number of access points when booking |

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About EltexAlatau

EltexAlatau company is one of the first communication equipment manufacturers in Kazakhstan established in 2012. The main focus of the enterprise is a set of solutions and the opportunity of their seamless connection to the customer's infrastructure.