- Smart antenna technology support
- High-performance solution based on Broadcom chipset
- Dual band access point with 802.11ac support
- Power supply: PoE+ (IEEE 802.3at)
- Operation in cluster without a dedicated server (up to 64 devices)
- Seamless roaming
- Up-to-date authentication and encryption means

Solution for enterprise

WEP-2ac Smart provides high-performance, secure, accessible and easy to use wireless network that combines numerous features and services required by corporate clients.
WEP-2ac Smart 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

With support of IEEE 802.11n/ac standards WEP-2ac Smart provides 867 Mbps (5GHz) + 300 Mbps (2.4 GHz) data rates.
The Smart antenna technology used at 5 GHz is based on more than 700 optimized antenna patterns that switch dynamically while access point operation. WEP-2ac Smart analyzes customer and noise source location and uses the best antenna pattern for every moment of time.

Security

WEP-2ac Smart 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.

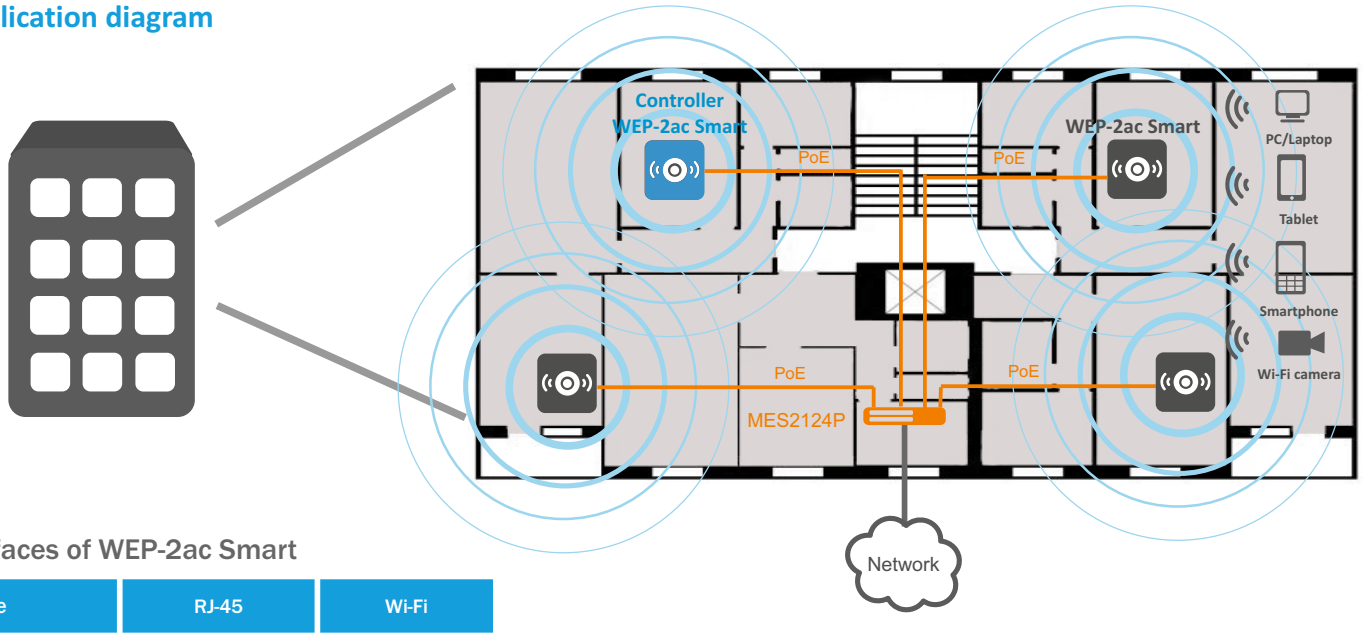
Performance

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.

Application diagram



Interfaces of WEP-2ac Smart

Name	RJ-45	Wi-Fi
WEP-2ac Smart	1x1G	802.11a/b/g/n/ac

Technical features

Interfaces
– 1 x Ethernet 10/100/1000BASE-T port (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
– WGB support
– 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
– LLDP support
– ACL support
– SNMP support
– IPv6 support

Cluster mode operation
– Cluster creation with the capacity of up to 64 access points
–Automatic synchronization of access points configurations in cluster
– Automatic firmware update in cluster
–Single Management IP - single address for access points management in cluster
– Automatic frequency channel allocation for multiple access points

QoS functions
– Profile based packet priorities and planning
– Bandwidth limiting for each SSID
– Modification of WMM parameters for each radio interface

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

Wireless interface specifications
– Frequency range 2400 - 2480 MHz, 5150 - 5850 MHz
– CCK, BPSK, QPSK, 16QAM, 64QAM, 256QAM modulations
– Embedded omnidirectional antennas 2.4 GHz, embedded Smart antennas on 5 GHz
– 2x2 MIMO, Smart Antenna
– Two embedded Broadcom BCM47452 (IEEE 802.11a/n/ac) and BCM43217 (IEEE 802.11b/g/n)

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 rate[2]
– 802.11ac: up to 867 Mbps

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

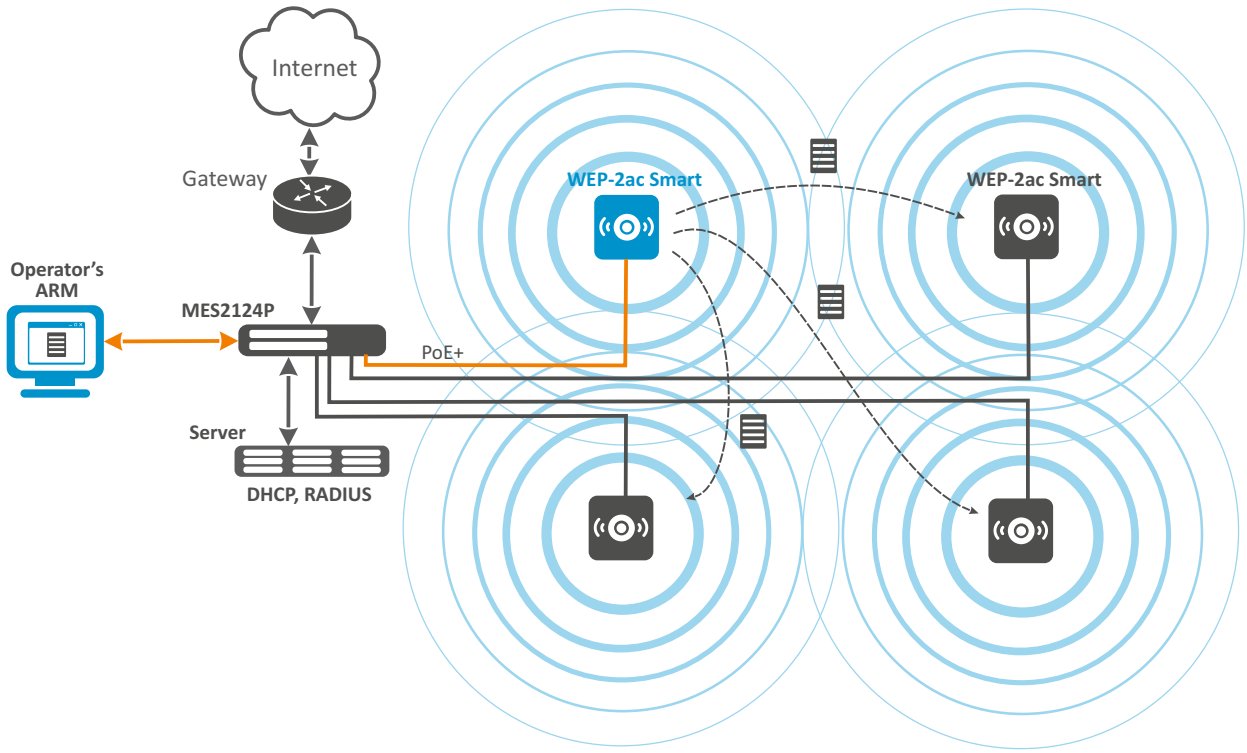
Maximum power of the transmitter
– 2.4 GHz: up to 18 dBm[1]
– 5 GHz: up to 21 dBm[1]

Physical specifications
– Power consumption below 13 W
– Broadcom BCM47452 processor
– 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
– EMS management system

[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-2ac Smart	Wi-Fi access point WEP-2ac Smart. Mounting kit.	
	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.