

- 802.11b/g/n (2.4G Wi-Fi)
- MIMO 2×2
- Power of the transmitter up to 26 dBm
- Integrated antenna 10.5 dBi
- PoE injector 24 V
- Reset button on the injector

WB-2P-LR2 is a high-performance wireless user station designed to provide up-to-date high-speed services via Wi-Fi technology.

Wireless connection

WB-2P-LR2 is developed for connection to Wi-Fi access network which might be constructed using base stations within long distances.

Performance

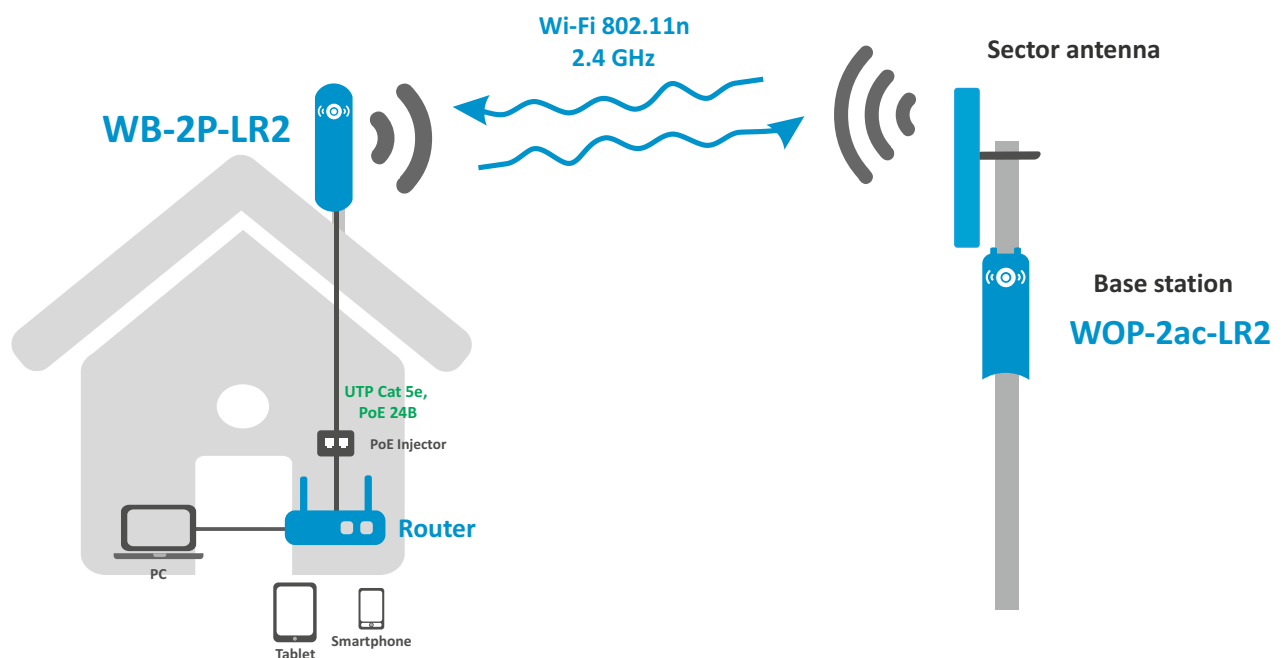
To ensure a stable and uninterrupted operation, the device is equipped with high-performance processors providing high routing rates and ensuring the effective operation of FBWA (Fixed Broadband Wireless Access) technology.



Interface configuration

Name	WAN	LAN
WB-2P-LR2	802.11b/g/n	1×G

Use case



Features and capabilities

Interfaces

- 1 port of 10/100/1000BASE-T (RJ-45)
- Wi-Fi 2.4 GHz IEEE 802.11b/g/n

WLAN

- Support for IEEE 802.11b/g/n standards
- Data aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Rx)
- WMM-based priorities and packet planning
- Access point detection
- Polling
- Channel list limitation
- Support for fixed center frequency
- Spectrum analyzer
- Support for wireless bridges (WDS)

Security

- Centralized authorization via RADIUS server (WPA/WPA2 Enterprise)
- WPA/WPA2 encryption
- 64/128/152-bit WEP encryption

Network functions

- VLAN Trunk
- Management VLAN
- General VLAN
- Transparent Mode
- VLAN Mapping
- Static routing
- Time synchronization via NTP
- Wireless transparent bridge
- PPPoE client
- MVR
- Limiting the number of MAC addresses learned

Configuration

- Firmware upgrade and configuration via DHCP-autoprovisioning, TR-069
- Remote management via Telnet, SSH
- Web interface
- SNMP (Monitoring)

Wireless interface parameters

- Frequency range 2400–2483.5 MHz
- BPSK, QPSK, 16QAM, 64QAM modulation
- MIMO 2×2
- Bandwidth: 5, 10, 20, 40 MHz

Operating channels¹

- 802.11b/g/n: 1–13 (2402–2482 Mhz)

Data rate²

- 802.11b: up to 11 Mbps
- 802.11g: up to 54 Mbps
- 802.11n: up to 300 Mbps

Receiver sensitivity

- 2.4 GHz: up to -98 dBm

Maximum power of the transmitter¹

- 2.4 GHz: 26 dBm

Antenna parameters

- Antenna gain: 10,5 dBi
- Linear polarization: H/V
- SWR: 2.0 max.
- Beam width (H): 60°
- Beam width (V): 40°

Physical specifications

- Power consumption up to 9 W
- RAM 128 MB
- Flash 32 MB
- Power: PoE 24 V
- Operating temperature: -45 °C to +65 °C
- Operating humidity: up to 95 %
- Dimensions (W × H × D): 80 × 282 × 66 mm
- IP54 protection
- Pole mounting

¹The number of channels and the value of the maximum output power will vary according to the rules of radio frequency regulation in your country.

²The maximum wireless data rate is defined according to IEEE 802.11n/ac standards. 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 the network coverage range.

Ordering information

Name	Description
WB-2P-LR2	WB-2P-LR2 wireless user station. PoE injector 24 V, power cable and mounting kit are included.

Contact us



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About Eltex

Eltex Enterprise is a leading Russian developer and manufacturer of communication equipment with more than 30 years of history. Complete solutions and their seamless integrability into the Customer's infrastructure are the priority growth areas of the company.