ELTEXALATAU

Integrated networking solutions

— **High-performance solution**

— **Support for IEEE 802.11a/n/ac (5G Wi-Fi)**

— **Support for MIMO 2x2**

— **Power supply: PoE+ (IEEE 802.3at)**

— **Service Wi-Fi 2.4 GHz IEEE 802.11b/g/n**

— **Up-to-date authentication and encryption means**

Wireless customer terminal WB-1P-LR is a high-performance multifunctional device dedicated to provide users with modern high-speed services via Wi-Fi technology.

Wireless connection

WB-1P-LR is designed to be connected to a Wi-Fi network which might be constructed with the help of base stations transmitting data within long-distances.

Performance

The terminal has embedded high-performance processor which allows the device to reach high rates in data routing and ensure highly effective operation of FBWA technology (fixed bandwidth wireless access).

WB-1P-LR interfaces

Device	WAN	LAN
WB-1P-LR	IEEE 802.11a/n/ac	1xG

Easy management in ACS

Eltex.ACS autoconfiguration system based on TR-069 protocol provides service provider with convenient functionality for management of firmware versions and user stations' configuration.

Eltex.ACS loads an individual configuration to the device automatically according to the subscriber account data. The intellectual update of the firmware operates with devices on a network in a row, updating a group of the devices according to a set queue. Eltex.ACS system includes NorthBoundInterface (NBI) for interfacing with OSS complexes.

Use case

Wi-Fi 802.11ac 5 GHz

sectoral antenna

WB-1P-LR

Base station

UTP Cat 5e, PoE+

PoE injector

Telephone

Smartphone, tablet

PC

RG-4402G-W

STB NV

Integrated networking solutions

Features and capabilities

Interfaces
– WLAN: IEEE 802.11a/n/ac
– LAN: 1 port of Ethernet RJ-45 10/100/1000BASE-T
– Service Wi-Fi 2.4 GHz 802.11b/g/n (interface of areal reach for beam alignment and device adjustment while installation)

WLAN capabilities
– Support for IEEE 802.11a/n/ac
– Data aggregation, including A-MPDU (Tx/Rx) and A-MSDU (Rx)
– WMM-based priorities and packet planning
– Automatic scanning of neighboring access points channels
– Support for APSD

Wireless interface parameters
– Frequency range: 5180–5320 MHz, 5500–5825 MHz
– Modulations: BPSK, QPSK, 16QAM, 64QAM, 256QAM
– Bandwidth: 20, 40, 80 MHz

Operating channels:
– 802.11a/n/ac: 36-64 (5180–5320 MHz),
                100-144 (5500–5720 MHz),
                149-165 (5745–5825 MHz)

Data rate[1]
– 802.11ac: 867 Mbps

Receiver sensitivity
– 5 GHz: up to -94 dBm

Maximum power of the transmitter
– 5 GHz: up to 27 dBm

Network features
– VLAN Trunk
– Management VLAN
– General VLAN
– Static routing
– Time synchronization via NTP
– Support for PPPoE client

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

Configuring
– Firmware update and configuration via DHCP-autoprovisioning, TR-069
– Remote management via Telnet, SSH
– Web interface

Physical characteristics
– Maximum power consumption 14 W
– Realtek 520 MHz processor
– RAM 128 MB
– Flash 16 MB[2]
– Power supply: PoE+ 48V/54V (IEEE 802.3at-2009)
– Operating temperature: from -30°C to +65°C
– Operating humidity: up to 80%
– Dimensions (WxHxD): 185x185x65 mm
– IP58 protection class
– Telecommunication mast mounting

[1] 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.
[2] Only for WB-1P-LR rev.B device

Ordering information

Name	Description	Image
WB-1P-LR	Wireless customer terminal WB-1P-LR, WLAN: IEEE 802.11a/n/ac; LAN: 1 port of Ethernet RJ-45 10/100/1000BASE-T; service Wi-Fi 2.4 GHz 802.11b/g/n.	

Contact Us

About EltexAlatau

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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.