ELTEX
Integrated Networking Solutions

— **High performance**
— **Dual Band Wi-Fi 802.11a/b/g/n/ac**
— **TR-069**
— **4 ports of LAN Fast Ethernet**
— **Customization**
— **USB device access via SMB and DLNA***
— **Guest Wi-Fi**
— **Wi-Fi EasyMesh**

Single access point

RG-35 subscriber terminal is an access point to modern interactive services through wired and wireless data transport networks.

IPTV transmission through Wi-Fi at 5 GHz frequency

The device provides advanced functionality for stable IPTV delivery through wireless network: smooth and uninter-rupted video playback is provided by special software functionality. The router allows operation at 2.4 and 5 GHz frequencies and also provides simultaneous video streams broadcast and data transmission.

Simplified administration

Centralized configuration uploading, intelligent update of firmware and data collection on subscriber devices are realized in TR-069-based Eltex.ACS system. This system provides simplicity of Eltex CPE management and decreases operating expenses (OPEX) for network maintenance.

Customization

The following means of customization are available: case color changing, logo placement, expansion of complete set and other options by additional requests.

«Smart home» controller*

The device includes «Smart home» controller, supporting the operation with sensors and devices by Z-Wave radio channel.
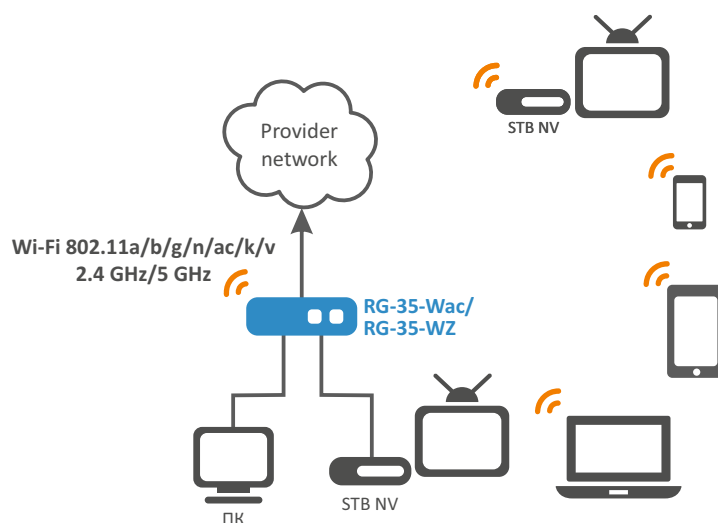
Advantages of EasyMesh technology

• Network intelligence: a self-organizing and self-optimizing network collects information and responds to network conditions for maximum performance.
• Efficient load balancing: allows devices to switch to a better connection and avoid interference.
• Scalability: allows adding multi-vendor Wi-Fi EasyMesh access points.

Interface configuration

	RG-35-Wac	RG-35-WZ
WAN	1x1000M	1x1000M
LAN	4x100M	4x100M
«Smart home» management controller	нет	есть
USB	1xUSB2.0	1xUSB2.0
Wi-Fi	802.11a/b/g/n/ac/k/v	802.11a/b/g/n/ac/k/v

RG-35-Wac and RG-35-WZ application diagram

Provider network

Wi-Fi 802.11a/b/g/n/ac/k/v
2.4 GHz/5 GHz

RG-35-Wac/ RG-35-WZ

STB NV

ПК

STB NV

*Available only for RG-35-WZ

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Features and capabilities

Main technical parameters
– Realtek 1 GHz processor
– RAM 128 MB
– Flash 16 MB (RG-35-WZ, 32 MB)
– Linux OS

Interfaces
– 1 port of WAN 10/100/1000Base-T (RJ-45)
– 4 port of LAN 10/100Base-T (RJ-45)
– 1 port of USB 2.0
– Wi-Fi IEEE 802.11b/g/n 2.4 GHz and 802.11a/n/ac 5 GHz
– «Smart home» interface — radio interface for «Smart home» system management

Connection types
– Static IP address
– DHCP
– PPPoE

Network features
– Support for MultiWAN
– Quality of Service (QoS)
– NAT
– Port forwarding
– Router/bridge mode operation
– DHCP server on the LAN side
– Firewall
– Static and dynamic routing
– Support for Dynamic DNS
– Support for local DNS
– Multiservice model: separate network parameters configuration per service: Internet, VoIP, IPTV*
– Support for UPnP
– Support for IGMP
– Time synchronization via NTP
– Restriction of the access to the device via WAN and LAN
– Telnet
– IPv4, IPv6

Wireless interface parameters
– WPA/WPA2 encryption standards
– Support for WMM
– Wireless Multicast Forwarding
– Wi-Fi IEEE 802.11a/b/g/n/ac/k/v
– Frequency: 2412-2472 MHz, 5180-5320 MHz, 5660-5825 MHZ
– MIMO:
    – 2.4 GHz 2x2
    – 5 GHz 2x2
– Output power:
    – 2.4 GHz (802.11b/g/n): up to 15 dBm
    – 5 GHz (802.11a/n/ac): up to 17 dBm
– Receiver sensitivity
    – 2.4 GHz
    MCS0: -90 dBm
    MCS4: -79 dBm
    MCS7: -72 dBm
    – 5 GHz
    MCS0: -92 dBm
    MCS4: -82 dBm
    MCS7: -76 dBm

Management and diagnostics
– WEB, support for HTTP and HTTPS*
– TR-069 (Eltex.ACS is recommended)

Physical specifications
– Power supply via 5.3V, 2.0A power adapter
– Maximum power consumption — 8 W
– Operating temperature range: +5 to +40°C
– Relative humidity: up to 80% (at +25°C)
– Dimensions: 150x110x27 mm
– Weight: 0.2 kg

Optional

Ordering information

Name	Description
RG-35-Wac	RG-35-Wac subscriber terminal: 1xWAN,4xLAN, 1xUSB, Wi-Fi 802.11a/b/g/n/ac/k/v
RG-35-WZ	RG-35-WZ subscriber terminal: 1xWAN,4xLAN, 1xUSB, Wi-Fi 802.11a/b/g/n/ac/k/v, «Smart home» controller
Related products	
RR-10	Wireless signal repeater
ACS-CPE-256	ACS-CPE-256 option of Eltex.ACS system for Eltex CPE autoconfiguration: 256 subscriber devices
ACS-CPE-512	ACS-CPE-512 coption of Eltex.ACS system for Eltex CPE autoconfiguration: 512 subscriber devices
ACS-CPE-1024	ACS-CPE-1024 option of Eltex.ACS system for Eltex CPE autoconfiguration: 1024 subscriber devices

Contact us

📞 +7 (383) 274 10 01
+7 (383) 274 48 48

✉ eltex@eltex-co.ru

🌐 www.eltex-co.com

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 infrastructue is a priority area of company development.