ELTEX
Integrated networking solutions

– **Dual core 1.15 GHz processor**
– **WAN Ethernet port 2.5 Gbps**
– **LAN Ethernet port 1 Gbps**
– **Dual-band Wi-Fi with speeds up to 1774.5 Mbps**
– **2×2 MU MIMO**
– **TR-069**
– **Guest Wi-Fi (Multi-SSID)**
– **Customization**
– **AX1800 Wi-Fi class**
– **Wi-Fi a/b/g/n/ac/ax**
– **Wi-Fi EasyMesh (802.11 k/v)**

RG-5520G-Wax

RG-5520G-Wax rev.B

RG-5520G-Wax — dual band Wi-Fi router with GbE LAN ports and 2.5 GbE WAN port with a high-performance dual core processor. The device supports the 802.11ax standard which simultaneously works with two streams delivering rates of up to 1.201 Gbps on the 5 GHz band. The MU MIMO technology makes the device a universal solution for enterprise net-working.

Simplified administration
Centralized configuration uploading, intelligent update of firmware and collection of data on the statuses of subscriber devices are implemented in the ELTEX.ACS system based on the TR-069 protocol. The 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, package extension and other options on request.

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.
- Scalability: allows adding multi-vendor Wi-Fi EasyMesh access points.

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Interface configuration

Main features	
WAN	1 x 2.5G
LAN	4 x 1G
USB	1 x USB 2.0
Wi-Fi	a/b/g/n/ac/ax

Features and capabilities

Main technical parameters
– RAM 256 MB
– Flash 128 MB

Interfaces
– 1 × WAN 10/100/1000/2500BASE-T (RJ-45)
– 4 × LAN 10/100/1000BASE-T (RJ-45)
– Wi-Fi 2.4 GHz b/g/n/ax
– Wi-Fi 5 GHz a/n/ac/ax
– 1 × USB 2.0

Network features
– MultiWAN
– QoS
– NAT
– Port forwarding
– DMZ
– ALG (FTP, TFTP, H323, SIP, PPTP)
– IP Passthrough
– Router/bridge mode operation
– DHCP server on the LAN side
– Firewall
– SPI
– Static and dynamic routing
– RIPv1, RIPv2
– Dynamic DNS
– Multiservice model: separate network parameters
   configuration per service: Internet, TR-069, IPTV
– UPnP
– IGMP Snooping
– IGMP Proxy
– MLD Snooping
– MLD Proxy
– UDP-to-HTTP Proxy
– Time synchronization via NTP
– Restriction of the access to the device via WAN and LAN
– SSH
– Telnet
– Jumbo Frame (up to 9200 bytes)

– IPv4, IPv6
– 3G/4G modems
– FTP, Samba, DLNA

Connection types
– Static IP address
– DHCP
– PPPoE
– L2TP
– PPTP
– WireGuard
– AmneziaWG
– OpenVPN
– ShadowSocks
– 6rd

Wireless interface parameters
– EasyMesh (IEEE 802.11k/v)
– WPA/WPA2/WPA3 encryption standards
– WPA Enterprise
– WMM (IEEE 802.11e)
– WPS
– Wireless Multicast Forwarding
– Frequency range:
   – 2402–2482 MHz
   – 5170–5330 MHz
   – 5650–5835 MHz
– MIMO:
   – 2.4 GHz: 2×2 MU MIMO
   – 5 GHz: 2×2 MU MIMO
– Maximum power of the transmitter:
   – 2.4 GHz: 21 dBm
   – 5 GHz: 22 dBm
– Antenna gain:
   – 2.4 GHz: 2×3 dBi
   – 5 GHz: 2×4 dBi
– Receiver sensitivity:
   – 2.4 GHz: up to -94 dBm
   – 5 GHz: up to -95 dBm

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Features and capabilities (continued)

– Data rate:
  – 2.4 GHz: up to 573.5 Mbps (HE40_MCS11)
  – 5 GHz: up to 1201 Mbps (HE80_MCS11)

Management and diagnostics
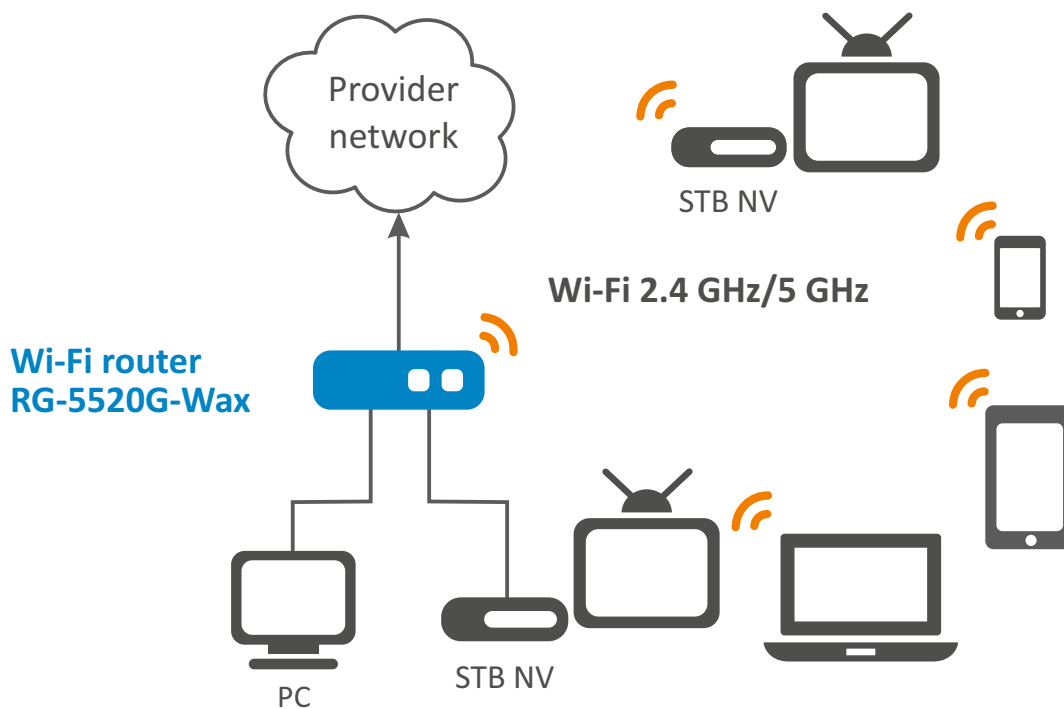– Web interface
– TR-069
– SSH
– Telnet

Physical specifications
– Power supply via 12 V DC, 2 A
– Maximum power consumption: 16 W
– Operating temperature range: from +5 to +40 °C

– Relative humidity at 25 °C: up to 80 %
– Dimensions (W × H × D):
  – RG-5520G-Wax —
    234 × 36 × 135 mm
  – RG-5520G-Wax rev.B —
    230 × 35 × 138 mm
– Weight:
  – RG-5520G-Wax — 0.355 kg
  – RG-5520G-Wax rev.B — 0.359 kg

Use case

Provider network

STB NV

Wi-Fi 2.4 GHz/5 GHz

Wi-Fi router RG-5520G-Wax

PC

STB NV

www.eltex-co.com

Ordering information

Name	Description
RG-5520G-Wax	RG-5520G-Wax Wi-Fi router: 1 × WAN, 4 × LAN, 1 × USB, Wi-Fi 802.11a/b/g/n/ac/ax

	Related products
RR-10	Wireless signal repeater
RR-11	Wireless signal repeater

	Related software
ACS-CPE	ACS-CPE option of ELTEX.ACS system for ELTEX CPE autoconfiguration: 256/512/1024 subscriber devices

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