

- 1.5 GHz Dual-core processor
- Wi-Fi IEEE 802.11ac
- Support for IPv6
- Dual band Wi-Fi
- 1 FXS port for VoIP service
- TR-069/DHCP-based autoprovision



A customer router RG-5421G-Wac is a uniform access point to Triple Play services: fast Internet, high-quality telephone connection, Full HD IPTV.

### 5<sup>th</sup> generation of Wi-Fi IEEE 802.11ac

The router, RG-5421G-Wac, supports Wi-Fi complying to IEEE 802.11ac standard. The advanced function set has been realized on the device in order to provide data transfer via two independent wireless lines with 1166 Mbps total bandwidth. The use of dual band antennas supporting 2x2 MIMO technology allows RG-5421G-Wac to provide telematic services via Wi-Fi 5G network. Automatization of wireless connection configuration has been implemented via WPS standard. Now you can configure a wireless connection by pushing a single button.

### Administrative convenience

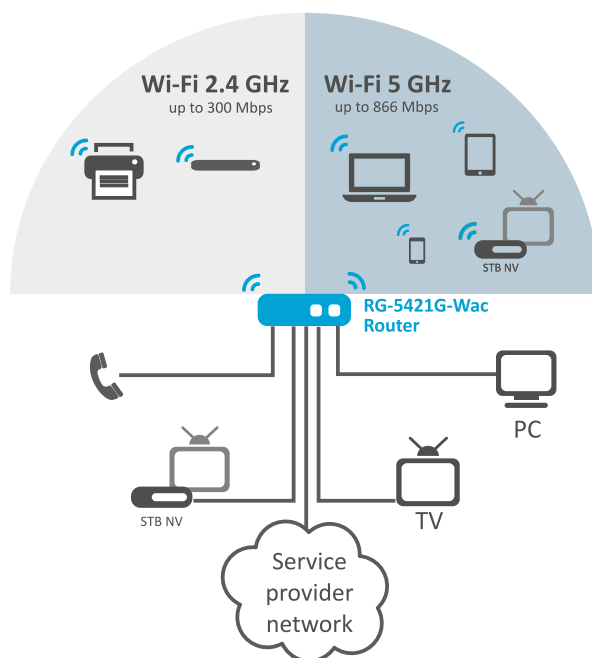
The device state indication, fast centralized uploading of the configuration, intellectual firmware update and statistics collection have been realized in Eltex.EMS system on the basis of TR-069. The system provides easy-to-use management of Eltex CPE devices and helps to reduce operating expenses.

### Customization

We provide the opportunity of Wizard and RG-5421G-Wac case branding. It will increase brand awareness of a company which offers its solution to a home user. We offer you the following branding means: changing of a case color, making a logotype, extended assembly and other means upon a request.

### Performance

For stable and continuous operation, RG-5421G-Wac is used a 1.5 GHz dual-core processor that allows reaching high routing rates and efficient Wi-Fi operation.



## Features and capabilities

### Interfaces

- 1 FXS port
- 1 WAN 10/100/1000Base-T port
- 4 LAN 10/100/1000Base-T port
- 2 USB 2.0 ports
- Wi-Fi (2.4 GHz/5.0 GHz, 802.11a/b/g/n/ac)

### VoIP protocols

- SIP

### Voice codecs

- G.711 a-law,  $\mu$ -law
- G.711 a-law,  $\mu$ -law (wide band)
- G.726 (24/32 kbps)
- G.723.1
- G.729 (A/B)

### Voice standards

- VAD (voice activity detector)
- CNG (comfort noise generation)
- AEC (echo cancellation, G.168 recommendations)

### DTMF

- Detection and generation of DTMF signals
- Transmission via INBAND, RFC 2833, SIP INFO

### Value Added Services

- Call Hold
- Call Transfer
- Call Waiting
- Call Forwarding on Busy (CFB)
- Call Forwarding on No Response (CFNR)
- Call Forwarding Unconditional (CFU)
- Caller ID (FSK Type I, FSK Type II, DTMF)
- Calling Line Identification Restriction (CLIR)
- Hotline/Warmline
- 3-Way Conference

### VoIP

- Support for several SIP profiles
- Connection with Wi-Fi SIP phones
- Operation without a SIP server
- Flexible numbering plan
- VAS management via a phone
- Collecting call history
- Support for SIP servers via DHCP Option 120
- Support for IMS (3GPP TS 24.623) standards for Call Hold, Call Waiting, 3-Way Conference, Hotline services management
- Geographical redundancy of a SIP server (support for up to 4 backup servers)

### Quality of Service(QoS)

- ToS for RTP, SIP packets

### Type of connections

- Static IP address
- DHCP
- PPPoE
- PPTP
- L2TP

### Network features

- NAT
- Static and dynamic routing
- VLAN support (VLAN per service)
- IGMP
- DHCP-, DNS servers on LAN side
- Port forwarding
- ‘Router’ and ‘bridge’ operating modes
- Firewall
- Multi service model: independent configuration for each service (Internet, VoIP, IPTV, management)
- 3G/4G router mode
- UPnP
- DLNA
- Support for FTP/SIP/RTSP ALG
- WAN/LAN/WLAN traffic shaping based on IP, MAC, TCP/UDP port, VLAN
- Filtering by MAC address on wired and wireless interfaces

### Supported specifications

- RFC 3261 SIP 2.0
- RFC 3262 SIP PRACK
- RFC 4566 Session Description Protocol (SDP)
- RFC 3263 Locating SIP servers for DNS lookup SRV and A records
- RFC 3264 SDP Offer/Answer Model
- RFC 3311 SIP Update
- RFC 3515 SIP REFER
- RFC 3891 SIP Replaces Header
- RFC 3892 SIP Referred-By Mechanism
- RFC 4028 SIP Session Timer
- RFC 2976 SIP INFO Method
- RFC 2833 RTP Payload for DTMF Digits, Flash event
- RFC 3108 Attributes ecan and silenceSupp in SDP
- RFC 4579 SIP Call Control - Conferencing for User Agents
- RFC 3361 DHCP Option 120
- RFC 3550 RTP A Transport Protocol for Real-Time Applications

### Management

- WEB (English and Russian versions)
- Telnet
- SSH
- TR-069 (Eltex ACS server is recommended to operate with)
- DHCP-autoprovisioning
- SNMP (configuration, monitoring, collecting the statistics)

### Diagnostics

- The device state monitoring via Web interface
- Debugging information is displayed in Syslog, Telnet
- Subscriber lines testing

### USB port

- USB drive connection with FAT/FAT32/EXT2/EXT3/NTFS file systems – file transferring on a network is realized via FTP, SAMBA
- USB 3G/4G modem connection – operating in 3G/4G router mode

## Features and capabilities

### Specifications

- Processor - Realtek RTL 8954ES
- SD RAM 128 MB
- SPI Flash 32 MB
- OS Linux
- MIMO 2x2
- Buttons
  - WPS
  - Reset
  - On/off
  - Wi-Fi

### Physical parameters

- Power supply: 12 VDC, 2 A
- Power consumption: no more than 10.2 W
- Operating temperature: from +5 °C to +40 °C
- Operating humidity: up to 80%
- Dimensions: 187x124x32 mm, desktop case

### Wireless connection

- Support for IEEE 802.11a/b/g/n/ac
- Beamforming
- Support for Virtual Access Point
- Wireless connection security: WEP, WPA, WPA2
- Frequency range 2400 ~ 2483.5 MHz, 5150 ~ 5350 MHz, 5500 - 5700 MHz, 5745 - 5825 MHz
- CCK, BPSK, QPSK, 16 QAM, 64 QAM, 256 QAM modulations

### – Wireless connection data rate, Mbps<sup>1</sup>

- 802.11b: 1, 2, 5.5, 11
- 802.11g: 6, 9, 12, 18, 24, 36, 48, 54
- 802.11n (HT20, 800ns GI): 130, 117, 104, 78, 52, 39, 26, 13
- 802.11n (HT40, 400ns GI): 300, 270, 240, 180, 120, 90, 60
- 802.11n (HT40, 800ns GI): 270, 243, 216, 162, 108, 81, 54, 27
- 802.11ac (HT80, 400ns GI): 866, 650, 520, 390, 260, 195, 130
- 802.11ac (HT80, 800ns GI): 780, 585, 468, 351, 234, 175, 117

### – Maximum power of the transmitter<sup>2</sup>


- 802.11b (11 Mbps): 16.5 dBm
- 802.11g (54 Mbps): 15.5 dBm
- 802.11n (HT20-MCS7): 15.5 dBm
- 802.11n (HT40-MCS7): 15.5 dBm

### – Receiver sensitivity

- 802.11b (11 Mbps): -86 dBm
- 802.11g (54 Mbps): -73 dBm
- 802.11n (HT20-MCS7): -68 dBm
- 802.11n (HT40-MCS7): -65 dBm

<sup>1</sup> 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.

<sup>2</sup> The maximum output power of the transmitter will vary according to the rules of radio frequency regulation in your country.

Name	Description	Image
<b>RG-5421G-Wac</b>	Customer router VoIP RG-5421G-Wac: 1xFXS, 1xWAN, 4xLAN, 2xUSB, Dual Band Wi-Fi 802.11b/g/n/ac	
Related software		
<b>ACS-CPE-256</b>	ACS-CPE-256 option of Eltex.ACS system for Eltex CPE autoconfiguration: 256 customer devices	
<b>ACS-CPE-512</b>	ACS-CPE-512 option of Eltex.ACS system for Eltex CPE autoconfiguration: 512 customer devices	
<b>ACS-CPE-1024</b>	ACS-CPE-1024 option of Eltex.ACS system for Eltex CPE autoconfiguration: 1024 customer devices	

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### About EltexAlatau

**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.