



## RESIDENTIAL ROUTER WIFI a/b/g/n/ac 1167Mbps Dual Band MIMO 500mW

### Description



#### Hardware

RIC420 uses MT7620A+7612E chipsets, main frequency up to 580MHz, is with large capacity DDR2 RAM and high speed SPI Flash, performance is stable and outstanding. Provides 5x10/100M self-adaption Ethernet port and 1xUSB2.0 port, and 1xSD card Slot, can meets all kinds of routing applications' needs.

#### Wireless

It is dual band high power wireless router, complies with IEEE802.11a/b/g/n/ac wireless network protocol, 2x2 MIMO(Multiple Input Multiple output) configuration, wireless transmit rate up to 1167Mbps, with 4x 5dbi external high gain omni antennas. Has a very good wireless performance and large coverage area. Wireless signal covers more than 150m if no obstacle, and 90 users at the same time.

### Features

- MT7620A+7612E chipsets, main frequency up to 580MHZ, performance is stable and outstanding
- Support IEEE 802.11a, IEEE 802.11b, IEEE 802.11g, IEEE 802.11n, IEEE 802.11ac wireless protocol.
- Wireless transmit rate up to 1167Mbps
- Support kinds of encryption modes, like WEP, WPA, WPA2 etc

### Specification

Hardware		
Main chipset	MT7620A+MT7612E	
RAM	DDR2 128MB (Maximum DDR2 256MB)	
FLASH	SPI 16MB (Maximum 32MB)	
Protocol	IEEE802.11n/802.11g/802.11b/802.3/802.3u/802.11AC	
Wireless rate	Up to 1.2Gbps	
Work frequency	2.4GHZ, 5.8GHZ	
RF Output power	2.4G:	
	802.11b	26± 2dBm
	802.11g	25± 2dBm
	802.11n	25± 2dBm
	5G/11ac:	
	802.11a: 6-24Mbps	22.0 ±1.5dBm
	36-48Mbps	21.0 ±1.5dBm
802.11n:		
HT20:	21.0 ±1.5dB	
HT40:	21.0 ±1.5dBm	
11AC:	21.0 ±1.5dBm	



Reception Sensitivity	IEEE 802.11b 1Mbps $\leq$ -95dBm    11Mbps $\leq$ -89dBm
	IEEE 802.11g 6Mbps $\leq$ -92dBm    54Mbps $\leq$ -74dBm
	IEEE 802.11n HT 20 MCS 0 $\leq$ -87dBm MCS 7 $\leq$ -70dBm
	HT 40 MCS 0 $\leq$ -83dBm MCS 7 $\leq$ -68dBm 11AC: $\leq$ -68dBm
Antenna	4*5dbi high gain omni antenna
Interface	1* 10/100M self-adaption WAN port, support Auto MDI/MDIX; 4* 10/100M self-adaption LAN port, support Auto MDI/MDIX; 1* USB 2.0 port, 1* Push-Push Type SD Card Slot
LED	Power/SYS/USB/WLAN/WAN/Port4/Port3/Port2/Port1
Button	Reset
Powered by POE	Support
Maximum power consumption	12W
Housing size (L*W*H)	Size: 235*135*25.5mm
<b>Software</b>	
Factory setting	IP address: 192.168.1.1    User name/ pass word: admin/admin
WAN access way	PPPoE, Dynamic IP, Static IP
Work mode	AP; ROUTER;
DHCP server	DHCP server    Client list;    Static Address distribution
System supported	Original SDK, openwrt, eCos
Virtual server	Port Forwarding    DMZ main machine
Safety setting	Client filter    MAC Address Filter    URL Filter    Long-distance WEB management
DDNS	Support
WEB theme switch	Support
Bandwidth control	Support
Static routing	Support
System log	Support
Others	Mac clone    NTP Synchronize    Web firmware upgrade
<b>Others</b>	
Environmental conditions	Operating Temperature: 0°C ~ 40°C
	Storage Temperature: -40°C~ 70°C
	Operating Humidity: 10%~90% non-condensing
	Storage Humidity: 5%~90% non-condensing
Certification	3C
Accessories	Warranty card    1PCS
	Round white foot pad    4PCS
	Power adapter    1PCS (US 12V/1.5A    cable 1.5M)
	Dark blue network cable 1m    1PCS 4* 5DBI detachable antenna
Packing	Plastic uptake, paper box 330*232*60MM K9K
Net weight	0.8kg
Gross weight	1.2kg



## COMMON FEATURES CHT

Its patented and **embedded Cognitive Hotspot Technology (CHT)** ensures users of your WiFi network will enjoy supreme performance even in the most adverse conditions. Thanks to its **automatic resource optimization and control** based on artificial intelligence, Galgus' APs appropriately suit many different scenarios. In addition, the site administrator will find it easier to operate the network, with a **powerful and intuitive optional cloud management system**: You can handle your network from a single location and extract more valuable information from your infrastructure.

A network with Galgus' APs:

- **Avoids typical problems** from those solutions with centralized controllers or cloud controllers such as lack of adaptability and robustness, single points of potential failure, delays in decision making, bottlenecks, traffic efficiency drop...

- Drastically **reduces operating costs and increase performance**, as CHT is responsible for optimizing the network in real-time automatically without human intervention: allocation of radio resources, channels, bandwidth, load balancing and prebalancing, airtime fairness, smart and predictive roaming, traffic congestion management, automatic power control, multicast, multicast to unicast conversion, device location and tracking, etc.

- **Adds an enormous value** to the existing infrastructure (location and tracking of connected users even if they falsify their MAC address, detecting, mitigating and even locating hacker attacks, generating heat maps in real-time, as well as discovering and exploiting the amendments that support the devices), allowing the owner of the network to use the data obtained without violating the user' privacy.

**Simplifies** administrators' life, thanks to its Zero-Touch Provisioning philosophy for immediate deployment and advanced enterprise-grade management features (cloud management, REST API, captive portal and integration with social login, dynamic VLANs, WPA enterprise with Radius support, and modular licenses with auto-download system).