

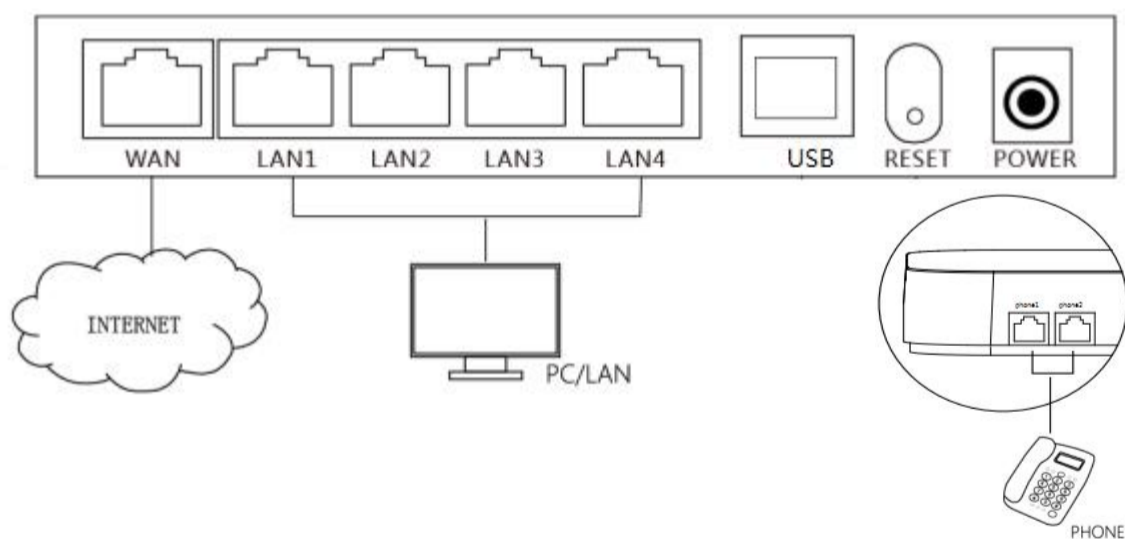
## GE Router with VoIP FWR9502



### Feature Keys

- Layer2/3 QoS
- 10/100/1000Mbps Ethernet
- Wave2
- 4\*4 2.4GHz&5GHz Wi-Fi
- Real-time IP fax, T.38 and T.30
- HNAT
- WAN PoE output ( Software configurable 30/48V PoE) optional

### Hardware Interface



### Overview

The Flyingvoice powerful VoIP Wireless Router FWR9502, FWR9502 includes extended functions which support USB memory card and 2 FXS ports. This design not only provide users with a conventional VoIP and routing capabilities. Users can also take FWR9502 as a FTP server, to share LAN files, pictures and other resources. Meanwhile, 2 FXS ports can be well adapted to small and micro enterprises, 1FXS for telephone, 1FXS for Fax, no need to add additional equipment. FWR9502 VoIP wireless router is ideally suited for small and medium

enterprises (SMB) to build wireless office. FWR9502 supports IEEE802.11ac gigabit wireless LAN standard, the wireless connection speed is up to 2600Mbps and it supports both 2.4GHz and 5GHz bands. For VoIP end user, 5G band can make sure less interference and the transmission quality. The more, users can enjoy greater bandwidth, and enhanced data throughput.

# Technical Parameters

Chipset Solution	<ul style="list-style-type: none"> <li>• MT7621A+MT7615N(2.4GHz)+MT7615N(5GHz)</li> </ul>
Flash	<ul style="list-style-type: none"> <li>• 32MB Flash</li> </ul>
RAM	<ul style="list-style-type: none"> <li>• 128MB DDR2 RAM</li> </ul>
Power	<ul style="list-style-type: none"> <li>• AC/DC Adapter</li> <li>AC Input: 100~240V, 50~60Hz</li> <li>DC Output: 12V, 2A</li> </ul>
Max TX Power	<ul style="list-style-type: none"> <li>• 20 dBm</li> </ul>
I/O Interfaces	<ul style="list-style-type: none"> <li>• 1 RJ-45 for WAN Port (Ethernet 1000 Base-T)</li> <li>• 4 RJ-45 for LAN Port (Ethernet 1000 Base-T)</li> <li>• 2 RJ-11 for FXS Port</li> <li>• 1 USB 3.0 Host Ports</li> </ul>
Environmental	<ul style="list-style-type: none"> <li>• Operation Temperature: 0~50 Degree C</li> <li>• Storage Temperature: -25~ 85 Degree C</li> <li>• Relative Humidity: 10%~90% No Condensing</li> </ul>
Audio Codec	<ul style="list-style-type: none"> <li>• G.711(A/u), PESQ&gt;4.3</li> <li>• G.729AB, PESQ&gt;3.7</li> <li>• G.722, G.723, G.726, iLBC</li> <li>• Adaptive Jitter Buffer Management</li> <li>• Voice Activity Detection</li> <li>• Comfort Noise Generation</li> <li>• Echo Cancellation</li> <li>• T.30 FAX with G.711</li> <li>• Real time FAX over IP via T.38</li> </ul>
Applications	<ul style="list-style-type: none"> <li>• Support NAT mode and Bridge mode</li> <li>• Support DDNS</li> <li>• MAC address cloning</li> <li>• NAT Traversal by STUN</li> <li>• Built-in Wired speed NAT Router</li> <li>• DHCP Server and Client</li> <li>• IP conflict detection</li> <li>• Port Forwarding, DMZ, SuperDMZ</li> <li>• 802.1Q VLAN/802.1p, DSCP, Rate Limiting</li> <li>• VPN(PPTP, L2TP, IPSec) Passthrough</li> <li>• SNTP</li> <li>• IGMPv2</li> <li>• ACL(Access Control List)</li> <li>• Broadcast Storm Control</li> <li>• Mac Filtering</li> <li>• Firewall(SYN Flooding, IP Spoofing, Smurf Attack, Ping of Death, DoS)</li> <li>• Ipv6(Dual Stack)</li> <li>• MLDv1, MLDv2</li> </ul>
Feature Keys	<ul style="list-style-type: none"> <li>• Hardware NAT (HNAT) engine with 1000Mbps NAT/NAPT speed</li> <li>• 4X4 802.11n MU-MIMO (Wave2)</li> <li>• 4X4 802.11ac MU-MIMO (Wave2)</li> </ul>

Protocols	<ul style="list-style-type: none"> <li>• SIP V2.0 (RFC 3261, 3262, 3263, 3264)</li> <li>• SDP (RFC2327)</li> <li>• RTP/RTCP (RFC823/903)</li> <li>• NAPTR for SIP URI lookup (RFC2915)</li> <li>• STUN (RFC2030)</li> <li>• ARP/RARP (RFC 826/903)</li> <li>• SNTP (RFC 2030)</li> <li>• Message Waiting Indicator (RFC3842)</li> <li>• DHCP Option Codes for SIP (RFC3361)</li> <li>• DNS/DNS SRV (RFC1706 and RFC 2782)</li> <li>• IEEE802.1Q VLAN/802.1p and IP DSCP</li> <li>• IEEE 802.11a/b/g/n/ and 802.11ac Wave 2</li> </ul>
Management	<ul style="list-style-type: none"> <li>• Firmware Upgrade</li> <li>• Web Management Interface</li> <li>• IVR-driven Management Interface</li> <li>• Local and Remote Syslog (RFC3164)</li> <li>• Auto Provisioning</li> <li>• SNTP Time Synchronization</li> <li>• Multi User Level</li> <li>• SNMP v2</li> <li>• Telnet</li> <li>• TR069</li> <li>• System Log: local log and remote log</li> </ul>
Wireless	<ul style="list-style-type: none"> <li>• 5dBi Antenna (4X4)</li> <li>• TX Power               <ul style="list-style-type: none"> <li>17dBm @ 2.4GHz 11n MCS7 HT40M</li> <li>17dBm @ 5GHz 11ac MCS9 VHT80M</li> </ul> </li> <li>• RX Sensitive               <ul style="list-style-type: none"> <li>-70dBm @ 2.4GHz 11n MCS7 HT40</li> <li>-53dBm @ 5GHz 11ac MCS9 VHT80</li> </ul> </li> <li>• Static WEP(64/128bit), Dynamic WEP(64/128bit), AES(CCMP/TKIP)</li> <li>• VMAC certification / WEP certification</li> <li>• WPA-PSK/WPA-PSK2, WPA/WPA2</li> <li>• AP Isolation and MBSSID AP Isolation</li> <li>• WMM / WDS / WPS</li> <li>• Wireless MAC Filter</li> </ul>
Call Features	<ul style="list-style-type: none"> <li>• 3-way conference</li> <li>• Call hold</li> <li>• Call forwarding</li> <li>• Call Transfer</li> <li>• Call waiting</li> <li>• Caller ID and CWCID</li> <li>• DTMF Relay: In-band, Out-band and SIP INFO</li> <li>• QoS Layer 3</li> <li>• Call Log</li> <li>• CID/CWCID</li> <li>• Dial Plan</li> </ul>

- DTMF Mode: Inband, RFC2833 and SIP Info

Related certification

- FCC Part 15 Class B approval
- CE certification
- RoHS compliance

## Place Order

Product Number	Description
FWR9500	1 WAN (GE) +4 LAN (GE) +1 USB+2. 4G (600Mbps) +5G (1700Mbps)
FWR9502	1 WAN (GE) +4 LAN (GE) +2 FXS+1 USB+2. 4G (600Mbps) +5G (1700Mbps)