

2010

R9 Series User Manual



Samen

Forwell Wireless Co., Ltd.

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R9 Series Wireless Router

User Manual



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Introduction

This user guide describes the R9 series router. The aim of the manual is to ease the test, install and disposition.

Note: Though all features are documented in this manual, new features may still be in beta stage at publication and therefore may not yet be validated. Please refer to the Customer Release Note for complete and detailed information regarding beta and validated features at time of release.

Document History

Version	Comments	Date	Writer
1.00	Standard	December 16 2009	Samen

References

R96 ROUTER DATASHEET
 R97 ROUTER DATESHEET
 R99 ROUTER DATASHEET

Abbreviations

	Description
APN	Access Point Name
DAC	Digital Analog Converter
GGSN	Gateway GPRS Support Node
GPRS	General Packet Radio Service
IP	Internet Protocol
KB	Kilobyte
MCC	Mobile Country Code
MNC	Mobile Network Codes
MS	Mobile Station
PDU	Protocol Data Unit
PLMN	Public Land Mobile Network

RSSI	Received Signal Strength Indication
SMA	Small Adapter
SMS	Short Message Services

Produclist

Product Type	Description
R9	EV-DO Rev. A
R97	HSDPA
R99	HSUPA

Appearance

Front Panel

LED	Description
Power	Lights while the router initial.
	Blinks while the router running.
3G	Lights while 3G dialup successful.
	Blinks while data trasmit through 3G.
Wi-Fi	Lights while Wi-Fi function enable.
	Blinks while data trasmit through Wi-Fi.
WAN	Lights while WAN connecting.
	Blinks while data trasmit through WAN.
LAN X 2	Lights while LAN connecting.
	Blinks while data trasmit through LAN.

Rear Interface

Interface	Description
3G Antenna	SMA interface
SIM	3.3V
WAN	RJ45
LAN X 2	RJ45
Power	Φ 2.0
Wi-Fi Antenna	SMA interface

Specification

- WAN X 1, 10/100M, support xDSL modem/cable modem/Ethernet.
- LAN X 2, 10/100M.
- 802.11 b/g/n inside.
- Support 802.11 n drafts, up to 300mbps.
- Support WEP/WPA/WPA2/WPA-PSK/WPA2-PSK.
- SSID broadcast control.
- NAT & DMZ
- DHCP
- Firewall function, support URL filter & MAC filter.
- IP-MAC binds function.
- Static route configurable.
- Update firmware via web.
- Remote configure via web.
- Multi-language web interface.

Connection

Login the router

Run the IE, open the URL: "http://192.168.1.1", the default user name and password both are "admin"



Follow is the configuration web.

The screenshot shows the 'Access Point Status' page of a 3G Router. The page has a dark blue header with the slogan '无线创造自由' (Wireless creates freedom). On the left, there is a navigation tree with categories like '3G Router', 'Operation Mode', 'Internet Settings', 'Wireless Settings', 'Firewall', and 'Administration'. The main content area displays the status of the 3G Router, including system information and network configurations.

Access Point Status

Let's take a look at the status of 3G Router

System Info	
Product Model	R9
Software Version	1.0.1 (Sep 2 2010)
System Up Time	26 mins, 48 secs
System Platform	RT3052 embedded switch
Operation Mode	Gateway Mode
Internet Configurations	
Connected Type	3G
WAN IP Address	113.112.170.71
Subnet Mask	255.255.255.255
Default Gateway	115.168.82.66
Primary Domain Name Server	202.96.128.86
Secondary Domain Name Server	220.192.32.103
MAC Address	00:10:18:01:0D:64
Local Network	
Local IP Address	192.168.1.1
Local Netmask	255.255.255.0

Configuration

3G Router

Select Language

English

[Status](#)
[Statistic](#)
[Management](#)

Select language, the router support English and simple Chinese.
 The status, statistic and management web link.

Operation Mode

Bridge:

All ethernet and wireless interfaces are bridged into a single bridge interface.

Gateway:

The first ethernet port is treated as WAN port. The other ethernet ports and the wireless interface are bridged together and are treated as LAN ports.

AP Client:

The wireless apcli interface is treated as WAN port, and the wireless ap interface and the ethernet ports are LAN ports.

NAT Enabled

- **Bridge:** All ethernet and wireless interfaces are bridged into a single bridge interface.
- **Gateway:** The first Ethernet port is treated as WAN port. The other Ethernet ports and the wireless interface are bridged together and are treated as LAN ports.
- ◆ **AP Client:** The wireless apcli interface is treated as WAN port and the wireless ap interface and the Ethernet ports are LAN ports.
- **NAT:** Network Address Translation

Internet settings

Wide Area Network (WAN) Settings

[open all](#) | [close all](#)

- 3G Router
 - Operation Mode
 - Internet Settings
 - WAN**
 - LAN
 - DHCP clients
 - Advanced Routing
 - QoS
 - Wireless Settings
 - Basic
 - Security
 - WDS
 - WPS
 - Station List
 - Firewall
 - MAC/IP/Port Filtering
 - Port Forwarding
 - DMZ
 - System Security
 - Content Filtering
 - Administration

Wide Area Network (WAN) Settings

You may choose different connection type suitable for your environment. Besides, you may also configure parameters according to the selected connection type.

WAN Connection Type: 3G

3G Mode	
USB 3G modem	HUAWEI EM660
Access Point Name:	<input style="width: 90%;" type="text"/>
Dial:	<input style="width: 90%;" type="text" value="#777"/>
PPP User:	<input style="width: 90%;" type="text" value="CARD"/>
PPP Password:	<input style="width: 90%;" type="text" value="CARD"/>
MAC Clone	
Enabled	Disable

This interface is mainly about the parameters needed for Internet Access through the Router
WAN connect Type: 3G

- **3G Modem:** Embedded HUAWEI-EM660 3G module
- **PIN Code:** enter PIN Code
- **Operation Mode:** Keep Alive(reconnecting after device restarted or disconnected,keep alive all the time).

Dial on demand(set a time, and there is no data exchange in this time, and device will come into idle mode)

Dial on time (This choice need to be used with NTP Network time. Fill a period of time, the first is on-line time and the second is off-line time.)

Manual Setup (There is a manual button. By using it you can make the Router on-line or off-line.)

- **MAC Clone:** Some ISP might ask for binding to the MAC address. In this circumstance, ISP will provide the user an valid MAC address. You just need to choose this choice and fill in the provided MAC address and save it.
- **MSP Parameters**

- **MSP Name:** set a name according to requirement(Note:the names in below list can't be used)
- **Network Type:** Different network can be chosen.
- **Dialing Number:**default telecommunication(#777), Mobile(*99***1#), Unicom(*99***1#)
- **Initial Command Strings:**There are two ways to fill in: one:use CDMA delicated Internet connect of Telecommunication,fill in

- `at^pppconfig="username","password"`
Two :Use GSM'S APN, fill in `at+cgdcont=1,"IP","APN"`,
- **User Name and Password:** Fill in the MSP User Name and Password provided by ISP. If you just provide APN's User Name and Password, you can jump over it.
- **3G local IP:** This function can only work in dedicated Internet connection, after fill in the corresponding IP, the IP appears in the 3G field in Status Page is just the one you have filled.
- **Authenticate Type:** AUTO, CHAP, PAP
- **Software Compress**
- **MSP Parameters List**

MSP List							
No.	MSP Name	Dialing Number	Initial Command String	User Name	Password	Local IP	Operation
<input type="radio"/>	CDMA	#777		CARD	CARD		Delete
<input type="radio"/>	WCDMA	*99#		wap	wap		Delete
<input type="radio"/>	TD-SCDMA	*99***1#		wap	wap		Delete
<input type="radio"/>	WCDMA1	*99#		wap	wap		Delete

- Parameters in this list are added from top to bottom. Firstly, select the parameters you need to submit. And then select the corresponding USB Modem to submit. After all these steps, you can dial.

Local Area Network (LAN) Settings

无线创造自由

[open all](#) | [close all](#)

- 3G Router
 - Operation Mode
 - Internet Settings
 - WAN
 - LAN
 - DHCP clients
 - Advanced Routing
 - QoS
 - Wireless Settings
 - Basic
 - Security
 - WDS
 - WPS
 - Station List
 - Firewall
 - MAC/IP/Port Filtering
 - Port Forwarding
 - DMZ
 - System Security
 - Content Filtering
 - Administration

Local Area Network (LAN) Settings

You may enable/disable networking functions and configure their parameters as your wish.

LAN Setup	
IP Address	<input type="text" value="192.168.1.1"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
LAN 2	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
LAN2 IP Address	<input type="text"/>
LAN2 Subnet Mask	<input type="text"/>
MAC Address	00:10:18:01:08:64
DHCP Type	Server <input type="button" value="v"/>
Start IP Address	<input type="text" value="192.168.1.100"/>
End IP Address	<input type="text" value="192.168.1.200"/>
Subnet Mask	<input type="text" value="255.255.255.0"/>
Default Gateway	<input type="text" value="192.168.1.1"/>

802.1d Spanning Tree	<input type="button" value="Disable"/> <input type="button" value="v"/>
LLTD	<input type="button" value="Disable"/> <input type="button" value="v"/>
IGMP proxy	<input type="button" value="Disable"/> <input type="button" value="v"/>
UPNP	<input type="button" value="Disable"/> <input type="button" value="v"/>
Router Advertisement	<input type="button" value="Disable"/> <input type="button" value="v"/>
PPPOE relay	<input type="button" value="Disable"/> <input type="button" value="v"/>
DNS proxy	<input type="button" value="Disable"/> <input type="button" value="v"/>

Setting the LAN parameters, include IP address, sub mask, VLAN, DHCP, etc.

DHCP Client List

DHCP Clients			
Hostname	MAC Address	IP Address	Expires in

- List the Clients which gain IP address from DHCP recently.

Static Routing Settings

This section mainly introduce what is Routing Table and how to configure static router.

- Routing Table

This page shows the key routing table of this router.

Current Routing table in the system:									
No.	Destination	Netmask	Gateway	Flags	Metric	Ref	Use	Interface	Comment
1	255.255.255.255	255.255.255.255	0.0.0.0	5	0	0	0	LAN(br0)	
2	10.10.10.0	255.255.255.0	0.0.0.0	1	0	0	0	LAN(br0)	

The main function of the router is to find the best transmission path for every data packet through the router and to transmit the data to the destination. Thus, the key of the router is the routing algorithm. In order to accomplish this work, there are various related transmission path data saved in the router- routing table. Routing data is for the router to use.

- New Static Router

This page is about static routing function of the router.

Add a routing rule	
Destination	<input type="text"/>
Range	Host <input type="button" value="v"/>
Gateway	<input type="text"/>
Interface	LAN <input type="button" value="v"/> <input type="text"/>
Comment	<input type="text"/>

§ **Destination:** visited Target Host or IP network segment

§ **Range:** Host or Network can be chosen

§ **Gateway:** IP address through the next router.

§ **Interface:** You can choose the corresponding interface type.

§ **Comment:** some notes

Notice:

- Gateway and LAN IP of this router must belong to the same network segment.
- If the destination IP address is the one of a host, and then the Subnet Mask must be 255.255.255.255.
- If the destination IP address is IP network segment, it must match with the Subnet Mask. For example, if the destination IP is 10.0.0.0, and the Subnet Mask is 255.0.0.0.

Wireless settings

Basic Wireless Settings

Wireless Network	
Radio On/Off	<input type="button" value="RADIO OFF"/>
Network Mode	11b/g/n mixed mode ▾
Network Name(SSID)	Forwell <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID1	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID2	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID3	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID4	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID5	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID6	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Multiple SSID7	<input type="text"/> <input type="checkbox"/> Hidden <input type="checkbox"/> Isolated
Broadcast Network Name (SSID)	<input checked="" type="radio"/> Enable <input type="radio"/> Disable
AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
MBSSID AP Isolation	<input type="radio"/> Enable <input checked="" type="radio"/> Disable
BSSID	00:10:18:01:05:34
Frequency (Channel)	2437MHz (Channel 6) ▾
HT Physical Mode	
Operating Mode	<input checked="" type="radio"/> Mixed Mode <input type="radio"/> Green Field
Channel BandWidth	<input type="radio"/> 20 <input checked="" type="radio"/> 20/40
Guard Interval	<input type="radio"/> Long <input checked="" type="radio"/> Auto
MCS	Auto ▾
Reverse Direction Grant(RDG)	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Extension Channel	2457MHz (Channel 10) ▾
Aggregation MSDU(A-MSDU)	<input checked="" type="radio"/> Disable <input type="radio"/> Enable
Auto Block ACK	<input type="radio"/> Disable <input checked="" type="radio"/> Enable
Decline BA Request	<input checked="" type="radio"/> Disable <input type="radio"/> Enable

Other	
HT TxStream	2
HT RxStream	1

The basic parameters of Wi-Fi setting.

The Radio function enable and disable.

The network mode supports 802.11 b/g/n (draft).

Support multi-SSID up to 8.

Wireless Security/Encryption Settings

Select SSID	
SSID choice	Forwell

"Forwell"	
Security Mode	Disable

Access Policy	
Policy	Disable
Add a station Mac:	<input type="text"/>

The SSID select from multi-SSID setting.

Security mode include: disable, open, share, wep auto, WPA, wpa-psk, wpa2, wpa2-psk, wpa-psk/wpa2-psk, wpa/wpa2, 802.1X.

Access policy: setting the MAC list for access or deny.

Wireless Distribution System

Wireless Distribution System(WDS)	
WDS Mode	Disable

WDS support lazy mode, bridge mode, repeater mode

Wi-Fi Protected Setup

WPS Config	
WPS:	Disable

Wi-Fi protected setup.

Station List

Wireless Network							
MAC Address	Aid	PSM	MimoPS	MCS	BW	SGI	STBC

Wi-Fi station list.

Firewall

MAC/IP/Port Filtering Settings

Basic Settings	
MAC/IP/Port Filtering	Disable ▾
Default Policy -- The packet that don't match with any rules would be:	Dropped. ▾

MAC/IP/Port Filter Settings	
MAC address	<input type="text"/>
Dest IP Address	<input type="text"/>
Source IP Address	<input type="text"/>
Protocol	None ▾
Dest Port Range	<input type="text"/> - <input type="text"/>
Source Port Range	<input type="text"/> - <input type="text"/>
Action	Accept ▾
Comment	<input type="text"/>

(The maximum rule count is 32.)

Current MAC/IP/Port filtering rules in system:									
No.	MAC address	Dest IP Address	Source IP Address	Protocol	Dest Port Range	Source Port Range	Action	Comment	Pkt Cnt
Others would be dropped									-

Package Filter base the MAC/IP/Port rule. The page contains the rule edit area and rule list.

Virtual Server Settings

Virtual Server Settings	
Virtual Server Settings	Disable ▾
IP Address	<input type="text"/>
Port Range	<input type="text"/> - <input type="text"/>
Protocol	TCP&UDP ▾
Comment	<input type="text"/>

(The maximum rule count is 32.)

Current Virtual Servers in system:				
No.	IP Address	Port Range	Protocol	Comment

The NAT setting and rules list.

DMZ Settings

DMZ Settings	
DMZ Settings	Disable ▾
DMZ IP Address	<input type="text"/>

DMZ setting.

System Security Settings

Remote management	
Remote management (via WAN)	Deny ▾

Ping from WAN Filter	
Ping from WAN Filter	Disable ▾

Stateful Packet Inspection (SPI)	
SPI Firewall	Disable ▾

Remote management allows or deny.

Ping from WAM allow or deny.

SPI enable or disable.

Filter Settings

Webs Content Filter	
Filters:	<input type="checkbox"/> Proxy <input type="checkbox"/> Java <input type="checkbox"/> ActiveX

Webs URL Filter Settings

Current Webs URL Filters:	
No	URL

Add a URL filter:	
URL:	<input type="text"/>

Current Website Host Filters:	
No	Host(Keyword)

Add a Host(keyword) Filter:	
Keyword	<input type="text"/>

Web content filter for proxy, java, and activeX.

URL filter and keyword filter setting.

Administration

System Management

Language Settings	
Select Language	English <input type="button" value="v"/>

Adminstrator Settings	
Account	admin
Password	•••••

NTP Settings	
Current Time	Sat Jan 1 00:51:32 UTC 2000 <input type="button" value="Sync with host"/>
Time Zone:	(GMT-11:00) Midway Island, Samoa <input type="button" value="v"/>
NTP Server	<input type="text"/> ex: time.nist.gov ntp0.broad.mit.edu time.stdtime.gov.tw
NTP synchronization(hours)	<input type="text"/>

Select the language, change the administration account, and time setting.

Upgrade Firmware

Update Firmware	
Location:	<input type="text"/> <input type="button" value="Browse..."/>

Update Bootloader	
Location:	<input type="text"/> <input type="button" value="Browse..."/>

Upgrade the boot loader and firmware.

Settings Management

Export Settings	
Export Button	<input type="button" value="Export"/>

Import Settings	
Settings file location	<input type="text"/> <input type="button" value="Browse..."/>

Load Factory Defaults	
Load Default Button	<input type="button" value="Load Default"/>

Router parameters export, import and load factory default.

Access Point Status

System Info	
Software Version	1.0.0 (Dec 12 2009)
Hardware Version	1.0.0
System Up Time	1 hour, 30 mins, 2 secs
Operation Mode	Gateway Mode
SN	
PN	
3G Info	
Signal Strength	
Attachment State	Automatic search
Local Network	
Local IP Address	10.10.10.254
Local Netmask	255.255.255.0
MAC Address	00:E0:5D:F7:7F:50
Internet Configurations	
Connected Type	3G
WAN IP Address	
Subnet Mask	
Default Gateway	
Primary Domain Name Server	
Secondary Domain Name Server	
MAC Address	00:0D:09:A0:1B:D8

The system running status.

Statistic

WAN/LAN	
WAN Rx packets:	0
WAN Rx bytes:	0
WAN Tx packets:	18
WAN Tx bytes:	1476
LAN Rx packets:	1063
LAN Rx bytes:	100996
LAN Tx packets:	572
LAN Tx bytes:	440808

The network sends and receives Statistics

System Log

无线创造自由

- WAN
- LAN
- DHCP clients
- Advanced Routing
- QoS
- Wireless Settings
 - Basic
 - Security
 - WDS
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 - MAC/IP/Port Filteri
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 - DMZ
 - System Security
 - Content Filtering
- Administration
 - Management
 - Upload Firmware
 - Settings Managem
 - Status
 - Statistics
 - System Log**

System Log

```

System Log
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: standalone hub
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: ganged power switc
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: individual port ov
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: Single TT
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: TT requires at mos
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0:
Jan 1 00:00:17 ralink user.info kernel: power on to power good time: 2ms
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: local power source
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: enabling power on
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: state 7 ports 1 ch
Jan 1 00:00:17 ralink user.debug kernel: drivers/usb/core/inode.c: creat
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: port 1, status 010
Jan 1 00:00:17 ralink user.debug kernel: hub 1-0:1.0: debounce: port 1:
Jan 1 00:00:17 ralink user.info kernel: usb 1-1: new full speed USB devi
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1: default language 0x040
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1: new device strings: Mf
Jan 1 00:00:17 ralink user.info kernel: usb 1-1: Product: HUAWEI Mobile
[] 000000000000 00 000000000000Jan 1 00:00:17 ralink user.info kernel: usb 1
Jan 1 00:00:17 ralink user.info kernel: usb 1-1: SerialNumber: ??????????
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1: uevent
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1: usb_probe_device
Jan 1 00:00:17 ralink user.info kernel: usb 1-1: configuration #1 chosen
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1: adding 1-1:1.0 (config
Jan 1 00:00:17 ralink user.debug kernel: usb 1-1:1.0: uevent
                    
```

The system log.

Product Parts List

Name	Unit	Number	Description	Picture
R9	Item	1	Device	
Power Adapter	Item	1	DC12V1A	
Network Cable	Item	1	Standard supply	
3G Antenna	Item	1	Standard supply	
Wi-Fi Antenna	Item	1	Standard Supply	
Product CD	Piece	1	Standard supply	