

■ Product Introduction



The R9 Cellular Router designed for establish a Wi-Fi wireless network and share a cellular broad band Internet connection. The R9 Cellular Router enables users to quickly create a secure Wi-Fi (802.11 b/g/n) network and provide access to the Internet using a cellular network. By connect to 3G network; an Internet connection can be accessed and shared virtually anywhere within a wireless broadband network.

FORWELL WIRELESS mobile Communication products have been widely used for many application in over 20 countries over the world, such as electric power, oil field, coal mine safety, weather forecast, and environment protection, hydrology, heating pipe line, gas pipe line, street lamp control, telecommunications, post, bank and many other fields.

■ Application

Access Private Networks

With The R9 Cellular Router, government employees or corporate users can create a wireless network and provide colleagues with remote access to their secure private networks. It is ideal for off-site situations, such as crime scenes, where sharing information is critical.

Special Events

Share the Internet while working at special events. Whether you are at an industry convention, off-site meeting, sporting event, or backstage at a concert, The R9 Cellular Router can keep your personnel and guests in touch with the world.

Internet Access for Commuters

By installing the 3G Cellular Router on a bus, train, or even a boat, you can allow passengers to check e-mail or chat online while commuting. Enhance their experience and increase the value of your services offered with the 3G Mobile Router.

Emergency Response

Whether you are providing relief for a natural disaster or coordinating the rescue of a lost hiker, you can quickly set up a wireless network and allow your team members to access e-mail, go online, and share important files.



For the Road

The R9 Cellular Router lets you share a mobile Internet connection with your group when you are on-the-go for work or play. Stay on top of e-mails, chat with friends and family, get directions, read news, download music, or shop online.

Fixed Broadband Solution

The R9 Cellular Router can be used as a fixed broadband Internet solution in homes or offices that do not have a cable or DSL service available, but are within a compatible mobile wireless network. Conversely, if you are already subscribing to a mobile Internet service, you can simply use the 3G Mobile Router in your home instead of paying extra for a wired high-speed Internet

connection.

■ Benefits and Features

Advanced Network Security

The R9 Cellular Router creates a secure Wi-Fi network by supporting the latest wireless security features to prevent unauthorized access. Support for WEP, WPA, and WPA2 ensure that you will be able to secure your Wi-Fi network, regardless of your client devices. In addition, the 3G Cellular Router utilizes dual active firewalls (SPI and NAT) to prevent potential attacks from across the Internet.

Easy to install and use

The R9 Cellular Router sets up in minutes, making it easy to use while on-the-go. Remaining backward compatible with 802.11b/g/n devices, this router ensures that it will work with legacy wireless equipment you already own. This eliminates incurring additional expenses associated with upgrading your current wireless equipment. You can also directly connect Ethernet-based devices to its built-in 1-port full-duplex 10/100 switch.

Set up a wireless network with The R9 Cellular Router and provide your users with a secure, high-speed connection to the Internet virtually anywhere within a wireless broadband network.

■ Specification

| 3G | | |
|----------------------------|---|---|
| Compatible Mobile Networks | R96 | CDMA 1X RTT/EVDO Rev 0/EVDO RevA |
| | R97 | HSDPA/UMTS/EDGE/GPRS/GSM |
| | R98 | TD-SCDMA |
| | R99 | HSUPA/HSDPA/UMTS/EDGE/GPRS/GSM |
| Cellular Frequency | R96 | 800Mhz or 800/1900Mhz or 450Mhz(optional) |
| | R97 | Triple-band HSPA/UMTS 850/1900/2100 MHz Quad-band EDGE/GPRS/GSM 850/900/1800/1900 MHz |
| | R98 | 900/1900Mhz |
| | R99 | Triple-band HSPA/UMTS 850/1900/2100 MHz Quad-band EDGE/GPRS/GSM 850/900/1800/1900 MHz |
| Bandwidth | R96 | UL/DL: 1.8Mbps/3.1Mbps |
| | R97 | UL/DL: 384kbps/7.2Mbps |
| | R98 | |
| | R99 | GSM CS: UL 9.6kbps/DL 9.6kbps GPRS/EDGE: Multi-slot Class 12, Class B WCDMA CS: UL 64kbps/DL 64kbps WCDMA PS: UL 384kbps/DL 384kbps UL/DL HSUPA: UL 2.0Mbps(can be updated to 5.76M)/DL 7.2Mbps |
| WIFI | | |
| Standard | Support IEEE 802.11 b/g/n wireless operation standard | |
| Frequency Band | 2.4GHz (ISM Frequency Bands) | |

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| Compliant to | 802.11b Data Rate - 11, 5.5, 2, 1 Mbps (DSSS/CCK) or 802.11g Data Rate - 54, 48, 36, 24, 18, 12, 9, 6 Mbps (OFDM) 802.11n Data Rate – 150, 54, 48, 36, 24, 18, 12, 9, 6 Mbps |
| Coverage | Support distance up to 100m (328ft) for LOS (Line Of Sight) Coverage. |
| WIFI Channel | Wireless automatic channel selection |
| Security | 64/128-bit WEP (Wired Equivalent Privacy) |
| | WPA & WPA-PSK & WPA2 -PSK (Wi-Fi Protected Access) |
| Features | |
| Advanced Firewall | Network Address Translation (NAT) |
| Features | Stateful Packet Inspection (SPI) |
| Media Access Control | CSMA/CA with ACK |
| DHCP | Build-in DHCP (Dynamic Host Configuration Protocol) |
| DNS | supported |
| PPP authentication | PAP/CHAP |
| DDNS | supported |
| Hardware | |
| CPU platform | Ralink 3050 |
| Flash/RAM | 4M/32M |
| Interface | |
| WAN | 1X10/100M (RJ45 interface) |
| LAN | 2X10/100M (RJ45 interface) |
| Antenna | 1X antenna for Wi-Fi (SMA interface) |
| | 1X antenna for 3G (50Ω SMA female interface) |
| Antenna gain | 3db |
| Led | Power |
| | SYS |
| | LAN (10/100M) X 2 |
| | WAN |
| | WPS |
| | WLAN |
| | 3G |
| UIM/SIM | 1.8V/3V |
| Button | WPS |
| | Reset |
| Console | 1 console port(also can be used as M2M port) |
| Power | |
| Power supply | DC 12V/1A |
| Input voltage | 9~15V |
| Power consumption | Idle: 260mA@12VDC |
| | Max: 500mA@12VDC |
| | Average: 320mA@12VDC |
| System Inquiry | |
| User interface | WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled |

| | |
|-----------------------------|---|
| | Browsers) |
| | SYSLOG |
| Minimum System Requirements | Mobile Internet Access Subscription and Internet PC Adapter |
| | Computer with: |
| | Windows Vista , Windows XP SP2, Windows 2000 SP4, or Mac OS® X (v10.4/v10.3), Linux |
| | Internet Explorer 6 or Mozilla Firefox |
| Physical | |
| Operating Temperature | Storage: (-10°C to 70°C) |
| | Working: (-10°C to 55°C) |
| Humidity | 95% Maximum (Non-condensing) |
| Dimensions | Item (L x B x H): 150mm x 98mm x 26mm (5.3 " x 3.7" x 1.4") |
| | Packaging (L x B x H): 260mm x 190mm x 65mm (10.3 " x 7.5" x 2.6") |
| Weight | Item: 800g (1.8lbs) |
| | Packaging: 2.0 lbs |
| Others | |
| Warranty | 1 Year |
| Package Contents | R9 router,RJ-45 cable,Power adapter,Antennas,CD-ROM |

■ Products models

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|---------------------|--------------------------------|
| R99 HSUPA Router | 1 WAN, 2LAN, WIFI 802.11 b/g/n |
| R98 TD-SCDMA Router | 1 WAN, 2LAN, WIFI 802.11 b/g/n |
| R97 HSDPA Router | 1 WAN, 2LAN, WIFI 802.11 b/g/n |
| R96 EVDO Router | 1 WAN, 2LAN, WIFI 802.11 b/g/n |