

## ■ Product Introduction

The R8 Cellular Router designed for establish a Wi-Fi wireless network and share a cellular broad band Internet connection. The R8 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 R8 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 R8 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 R8 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 R8 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.

### Void Surveillance

## ■ Benefits and Features

### Advanced Network Security

The R8 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 R8 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 R8 Cellular Router and provide your users with a secure, high-speed connection to the Internet virtually anywhere within a wireless broadband network.

## ■ Specification

### Wireless

Compatible Mobile Networks	HSDPA/EDGE/GPRS	
Cellular Frequency	WCDMA/HSDPA 2100MHz: 1920MHz~1980 MHz/2110MHz~2170 MHz(Uplink/Downlink) WCDMA/HSDPA 1900MHz: 1850MHz~1910MHz/1930MHz~ 1990MHz(Uplink/Downlink) WCDMA/HSDPA 850MHz: 824~849 MHz/869~894 MHz(Uplink/Downlink)	
	GSM/GPRS/EDGE 850MHz: 824~849 MHz/869~894 MHz(Uplink/Downlink)	
	GSM/GPRS/EDGE 900MHz: 880MHz~915MHz/925MHz~960 MHz(Uplink /Downlink)	
	GSM/GPRS/EDGE 1800MHz: 1710MHz~1785MHz/1805MHz~ 1880MHz (Uplink/Downlink)	
	GSM/GPRS/EDGE 1900MHz: 1850MHz~1910MHz/1930MHz~ 1990MHz(Uplink/Downlink)	
	GSM CS: UL 9.6kbps/DL 9.6kbps	
	GPRS/EDGE: Multi-slot Class 12, Class B	
	Bandwidth	WCDMA CS: UL 64kbps/DL 64kbps WCDMA PS: UL 384kbps/DL 384kbps UL/DL HSDPA: UL 2.0Mbps(can be updated to 5.76M)/DL 7.2Mbps
	Wi-Fi	802.11b/g/n

### Protocol

Protocol support	TCP/UDP protocol stack
------------------	------------------------

### Security

Security	64/128-bit WEP (Wired Equivalent Privacy)
	WPA & WPA2 (Wi-Fi Protected Access)
Advanced Firewall	Network Address Translation (NAT)
Features	Stateful Packet Inspection (SPI)
Media Access Control	CSMA/CA with ACK
Certifications	CE
VPN	IPSec
	PPTP
	L2TP
	VPN Pass-through

### Interface

WAN	1X10/100M (RJ45 interface)
LAN	4X10/100M (RJ45 interface)
Antenna	1X antenna for Wi-Fi (SMA interface)
	1X antenna for 3G (50Ω SMA female interface)
Led	§ Power
	§ SYS
	§ LAN (10/100M)1,2,3,4
	§ WAN
	§ 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 Idle: 30mA@12VDC
Power consumption	Max: 400mA@12VDC Average:200mA@12VDC

### Software

User interface	WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers) SYSLOG Mobile Internet Access Subscription and Internet PC Adapter
Minimum System Requirements	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: (0°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	R8 router,RJ-45 cable,Power adapter,Antenna,CD-ROM

## ■ Products models

R87 HSDPA 1 WAN 4LAN WIFI 802.11 b/g/n