

Product Introduction

2.5G-3G mobile communication technology has become widely used of industrials and utilities in recent years and many customers are seeking reliable, flexible and costeffective data channel to build their information system. Many applications such as ATM, POS, SCADA and surveillance system will require data channels covered all country; this brings a bright future for mobile data networks applications. The R42 Series GPRS router is easy to install, reducing the reliance on the end customer and enables direct access to your remote LAN devices for control and monitoring purposes, It enables companies to remotely access equipment at mobile, remote networks and isolated sites.



It offers wireless network routing optimized for machines, small networks and specialised static IP services now available from wireless operators. It offers low cost router operation through Dial-out, Dial-in and Always Connected modes of operation, R4 Series router is a dedicated ideal data transmission channel for industrial applications.

Application



- ✧ Remote Data Monitor and Control
- ✧ Water, gas and oil flow metering
- ✧ AMR (automatic meter reading)
- ✧ Power station monitoring and control
- ✧ Remote POS (point of sale) terminals
- ✧ Traffic signals monitor and control
- ✧ Fleet management
- ✧ Power distribution network supervision
- ✧ Central heating system supervision
- ✧ Weather station data transmission
- ✧ Hydrologic data acquisition
- ✧ Vending machine
- ✧ Traffic info guidance
- ✧ Parking meter and Taxi Monitor
- ✧ Telecom equipment supervision (Mobile base station, microwave or optical relay station)

Benefits and Features

- Support multi-band GPRS network
- Support multiple protocol conversion

- Transparent data transmission
- Ethernet or RS-232 interface
- Easy To Use and Flexible Intelligent Router
- WEB/Telnet/console management interface
- Support radio network data envelope counting
- Always-On-Line
- Self-diagnostic and alarm output
- Local/remote firmware upgrade
- Built-in DHCP server
- Firewall and NAT
- Support packet filtering
- Support data center communication
- Support APN

Specifications

Wireless	
Compatible Mobile Networks	GPRS Class10
	Coding scheme: CS1 - CS4 SMG31bis standard
Cellular Frequency	R421Z110 GSM phase 2/2+
	GSM 850MHz/EGSM 900MHz/DCS1800MHz/PCS1900MHz R421S2110 GSM phase 2/2+ EGSM 900MHz/DCS1800MHz
Bandwidth	uplink 42.8Kbps Downlink 85.6kbps
Protocol	
Protocol support	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DDNS, DNS, SNMP
Security	
Security	64/128-bit WEP (Wired Equivalent Privacy)
Media Access Control	CSMA/CA with ACK
Certifications	REDIUS Client
Interface	
Ethernet port	1X 10/100M LAN port (RJ45 interface)
Antenna	50 Ω SMA female interface
Power slot	2.5mm
Led	CELL
	RUN
	ONLINE
	LAN (10/100M)

UIM/SIM	1.8V/3V
Power	
Power supply	DC5V-25V , typical DC12V1A
Power consumption	Idle: 20mA@12VDC
	Max: 300mA@12VDC
	Average:130mA@12VDC
Software	
User interface	<p>WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers)</p> <p>SNMP</p> <p>SYSLOG</p>
Minimum System Requirements	<p>Mobile Internet Access Subscription and Internet PC Adapter</p> <p>Computer with:</p> <p>Windows Vista , Windows XP SP2, Windows 2000 SP4, or Mac OS® X (v10.4/v10.3), Linux</p> <p>Internet Explorer 6 or Mozilla Firefox</p> <p>CD-ROM Drive</p> <p>Network Interface Card</p>
Physical	
Operating Temperature	Storage: -20°C to 70°C
	Working: -20°C to 55°C
Humidity	90% Maximum (Non-condensing)
Dimensions	Item (L x B x H): 100mm x 60mm x 20mm
	Packaging (L x B x H): 280mm x 220mm x52mm
Weight	Item: 300g
	Packaging: 2.0 lbs
Others	
Warranty	1 Year
Package Contents	<p>The R42 Series Cellular Router</p> <p>CAT5 Ethernet Cable</p> <p>DB9-DB15 Series Cable</p> <p>DC 9V1A Power Adapter</p> <p>Antenna</p> <p>CD-ROM with Product Documentation</p>

Products models

R421S210	GPRS Router, MC39i,1LAN
R421Z110	GPRS Router, ME3000,1LAN