

# EL-E481 Series EDGE Router Datasheet



## >>| 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 cost-effective 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 EL-E481 Series 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 specialized 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, EL-E481 Series router is a dedicated ideal data transmission channel for industrial applications.

E-Lins' mobile data products are widely used in more than 50 countries and regions, and more than twenty industrial fields, such as power control, water schedule, traffic, oil field, weather forecast, environmental protection, street lamp control, post, bank and many other areas.

## >>| Common Application

### ■ Access Private Networks

With the EL-E481 series 2.75G 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 EL-E481 series 2.75G Cellular Router can keep your personnel and guests in touch with the world.

## ■ Internet Access for Commuters

By installing the 2.75G 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 2.75G 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 EL-E481 series 2.75G 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 EL-E481 series 2.75G 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 2.75G Mobile Router in your home instead of paying extra for a wired high-speed Internet connection.

## ■ Void Surveillance

## >>| Industrial 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)

## >>| Features

- Support dual band GPRS network
- Support multiple protocol conversion
- Transparent data transmission
- Ethernet or RS-232 interface
- Easy To Use and Flexible Intelligent Router
- Real-time clock
- WEB/Telnet/console management interface
- Support radio network data envelope counting
- Always-On-Line
- Self-diagnostic and alarm output
- Local/remote profiles backup and retrieve
- Local/remote firmware upgrade
- Urgent event alarm via SMS
- Built-in DHCP server
- Support DMZ host
- Firewall and NAT
- Support packet filtering
- Support data center communication
- Transparent data transmission
- Support radio network data envelope counting

## >>| Specification

Wireless	
<b>Compatible Mobile Networks</b>	<ul style="list-style-type: none"> <li>• Coding scheme: CS1 - CS4</li> <li>• SMG31bis standard</li> </ul>
<b>Cellular Frequency</b>	<p>G285ZME3000</p> <ul style="list-style-type: none"> <li>• GSM phase 2/2+</li> <li>• GSM(EGSM)850/900MHz/DCS(GSM)1800/1900MHz</li> </ul>

<b>Speed rate</b>	Up to 384Kbps
<b>Protocol</b>	
<b>Protocol support</b>	TCP, UDP, SMTP, POP, ICMP, FTP, PPP, PPPoE, DHCP, DNS, SNMP
<b>Security</b>	
<b>Security</b>	64/128-bit WEP (Wired Equivalent Privacy)
<b>Media Access Control</b>	CSMA/CA with ACK
<b>Certifications</b>	RADIUS Client
<b>Interface</b>	
<b>Ethernet port</b>	1* 10/100M LAN port (RJ45 interface)
<b>Antenna</b>	50Ω SMA female interface
<b>Power slot</b>	2.5mm
<b>Led</b>	CELL RUN ONLINE LAN (10/100M)
<b>UIM/SIM</b>	1.8V/3V
<b>Power</b>	
<b>Power supply</b>	DC5V-25V , typical DC9V1A
<b>Power consumption</b>	Idle: 20mA@9VDC Max: 300mA@9VDC Average:130mA@9VDC
<b>Software</b>	
<b>Device Management</b>	<ul style="list-style-type: none"> <li>• WEB interface (Internet Explorer v6 or Later; Mozilla Firefox v1.5 or Later, or other Java-enabled Browsers)</li> <li>• SNMP</li> <li>• SYSLOG</li> </ul>

<b>Minimum System Requirements</b>	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 CD-ROM Drive Network Interface Card
<b>Physical</b>	
<b>Operating Temperature</b>	Storage: -40°C to 85°C Working: -30°C to 75°C
<b>Humidity</b>	95% Maximum (Non-condensing)
<b>Dimensions</b>	Item (L x B x H): 100mm x 60mm x 20mm Packaging (L x B x H): 280mm x 220mm x 52mm
<b>Weight</b>	Item: 300g Packaging: 2.0 lbs
<b>Others</b>	
<b>Warranty</b>	1 Year
<b>Package Contents</b>	<ul style="list-style-type: none"> <li>• The EL-E481 Series Cellular Router</li> <li>• CAT5 Ethernet Cable</li> <li>• DB9-DB15 Series Cable</li> <li>• DC 9V1A Power Adapter</li> <li>• Antenna</li> <li>• CD-ROM with Product Documentation</li> </ul>

## >>| Products models

E481SMC75      EDGE Router, Siemens MC75, 1LAN

E481MG24      EDGE Router, Motorola G24, 1LAN