

# ROUTE - GPRS

Cellular Data Communications  
GPRS/GSM Modem

## Applications

- Industrial and factory control
- Pipeline and wellheads - monitoring and control
- SCADA systems
- Security/monitoring systems
- Traffic monitoring and control systems



## Description

The ROUTE-GPRS enables the communication of serial data over the GSM cellular telephone network, allowing you to monitor and control remote equipment without investing in a wired network. If data security is a concern, the ROUTE-GPRS 128 bit encryption option will ensure data integrity over the network. The ROUTE-GPRS establishes a PPP connection with the host system and enables full duplex communication with the designated serial device. To establish the PPP connection, the modem uses GPRS (General Packet Radio Services), a cellular (GSM) packet based protocol for communications.

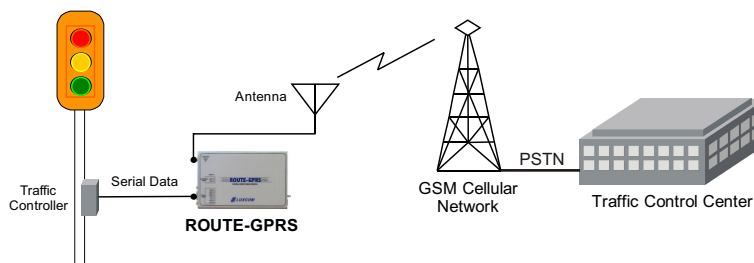
Communication can commence at the ROUTE-GPRS end, when the serial device issues ATD commands. Communication can also be initiated remotely by sending a SMS (Short Message Service) to the Route GPRS via any cellular phone or web browser. This allows you to control and monitor remote equipment with only a cellular or internet connection. The Route-GPRS is easy to set-up, as the modem automatically senses the baud rate of the attached serial device.

There are two versions of the modem: a stand-alone version (Route-GPRS) and a rack version (Route-GPRS-R). If the encryption option is used, the Route-GPRS must be used in combination with an encryption enabled Route-3 or Route-10 at the far end of the link.

## Features

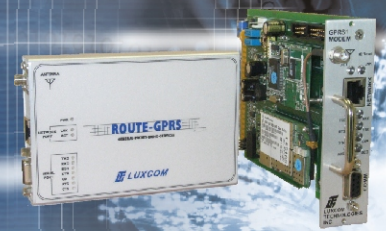
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|---|--|
| Cellular packet based communications GPRS   | wide temperature range (-40 C to 75 C) |
| Dial-In/Dial-Out functions                  | Low power consumption                  |
| Transparent to serial bit rate and protocol | Encryption option                      |
| Separate data and configuration ports       | Auto baud detect                       |
| 5 year warranty                             | Extensive indicators                   |

## Typical Network Connection



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## Specifications (continued)

### Electrical

Configuration.....	RS-232, DB-9S
Data port .....	RS-232, DB-9S
Data rate .....	57.6 Kbps maximum
RF Port (Antenna).....	TNC, female
Power source (Stand-alone version) .....	117V to 6V DC power cube (supplied)
Supply voltage range (stand-alone version) .....	5.5V to 8V DC
Power source (rack version) .....	Card edge input
Supply voltage range (rack version).....	12V to 36V DC
Power consumption (both versions).....	< 2 Watts

### General

Operating temperature .....	-40°C to 75°C
Humidity (RH) .....	10% to 95%
MTBF .....	> 50,000 hours
Dimensions, stand-alone version (H*W*D) .....	8.9cm * 13.5cm * 2.4cm
Dimensions, rack version (H*W*D) .....	11.4cm * 2.9cm * 17.5cm

\* Specifications are subject to change without notice.

## Part Numbers

<b>ROUTE-GPRS</b> .....	Stand-alone unit
<b>ROUTE-GPRS-E</b> .....	Stand-alone unit, with encryption option
<b>ROUTE-GPRS-R</b> .....	Plug-In rack version
<b>ROUTE-GPRS-R-E</b> .....	Plug-In rack version with encryption option
<b>91-430-0</b> .....	GPRS Antenna
Extra power cube .....	LTIPS-6

\* For additional antennas, please consult with Luxcom.

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