

# GSM / GPRS Module



The Module industrial RS-232 or RS-232/422/485 GSM/ GPRS/ EDGE IP modems are designed to transmit data and short messages (SMS) over GSM/GPRS/EDGE cellular networks. The Real COM operation mode automatically generates a virtual COM port to match serial ports supported by the module, allowing you to communicate with remote serial devices. The module's CPU comes pre-installed with the TCP/IP protocol suite to transmit data back and forth between the serial device and cellular TCP/IP network. It also comes with a built-in relay output that can be configured to indicate the priority of events when notifying or warning engineers in the field and the two

digital inputs allow you to connect basic I/O devices, such as sensors, to the cellular network. The module can be mounted on a DIN-rail, and the 12 to 48 VDC power input has 2 KV EFT/Surge protection to allow the use of different types of field power source. The serial ports are also protected by 15 KV ESD line protection to keep your system safe from unexpected electrical discharges.

## Features

- Quad-band 900/1800, 850/1900 MHz GSM/GPRS/EDGE
- GPRS Class 12
- Versatile operating modes, including Real COM, RFC2217, TCP Server, TCP Client, UDP
- Ethernet Modem, and SMS Tunnel
- Port buffering function to prevent loss of serial data when communication is disrupted
- Port speeds of up to 921.6 Kbps
- Any Baud rate feature for easy configuration of custom baud rates
- Redundant DC power inputs
- LED indicators for status and signal level
- 2 digital inputs and 1 relay output

## SMS Mode

A major benefit of GSM technology is that it supports short messages (SMS) for easy communication over the mobile network. SMS Mode allows you to expand your applications and reduce cost. For example, SMS Mode can be used to update the message on a highway display panel, place refill orders for vending machines, handle maintenance for remote rental equipment, or even help create an SMS alarm by directly transforming text, binary, or Unicode data from a legacy device to short messages. SMS Mode is particularly suitable for devices that communicate infrequently, or lack access to the local network. SMS Mode converts ASCII, binary code, and UCS2 data to short messages transparently (both back and forth). In addition, the caller ID (phone number) identification can be used to block messages sent from uncertified users, broadcast messages, and unwanted SMS advertisements.

## Features of SMS Mode

1. Transparently converts serial data to short message, and vice versa.
2. Text, binary, and Unicode formats are supported.
3. Verification of Incoming Caller ID calls is implemented to block uncertified users.

