

Proteus 2 Features

Proteus 2 has a number of interfaces that can be combined as input/output mediums with Proteus Protocol stacks for a complete Communications System. This Technical Specification defines only one element of Proteus that should be read in conjunction with other interface specifications.

Proteus and GSM with GPRS

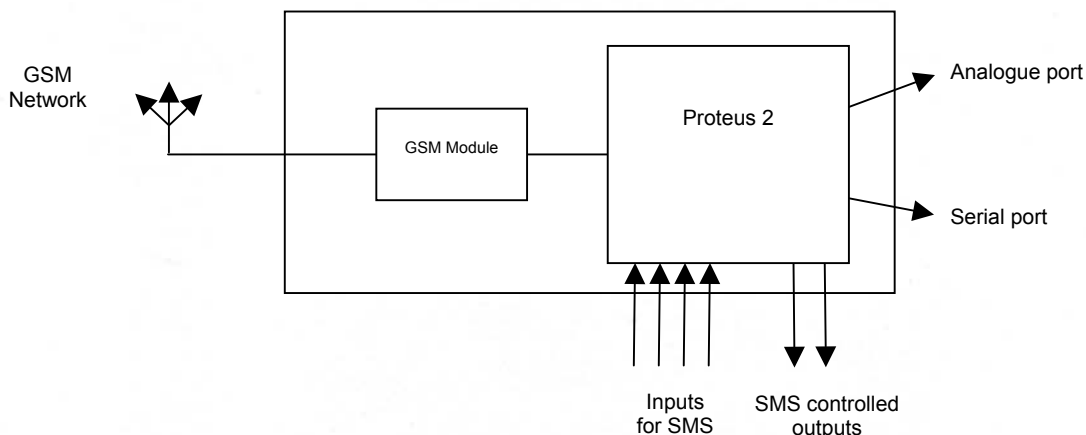
A GSM with GPRS interface is one of the options available on Chiron's Proteus communications processor range.

This solution uses an industry standard GSM interface module and makes a simple interface for equipment to be connected via a wireless link.

Through GSM the user can make voice/audio calls over the GSM phone network to any other telephone worldwide. Through GPRS the user can transfer data to any other destination on the Internet. GSM and GPRS standards are supported on networks throughout the world, giving a common global solution.

This gives a simple implementation for GSM and GPRS that is both cost effective and easy to integrate within your own product.

The GSM with GPRS interface can be used by itself or with the other communications interfaces available on the Proteus range such as ISDN or Ethernet.



Feature Overview

Within a single Integrated Circuit package, Proteus includes the functions required for a GSM and GPRS interface:

- GSM interface - dual band (900/1800 MHz) for compatibility with majority of GSM networks
- Outgoing SMS messages transmitted on activation of input pins
- Incoming SMS messages, with caller number validation, control relay outputs
- Data transfer over GPRS network:
 - PPP with CHAP/PAP authentication
 - TCP/IP data stack for error-free transmission of data and flow control across an IP network
- Secure polling function for systems where regular checking of device integrity is required
- Application Programming Interface for user customisation



