

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 Ethernet

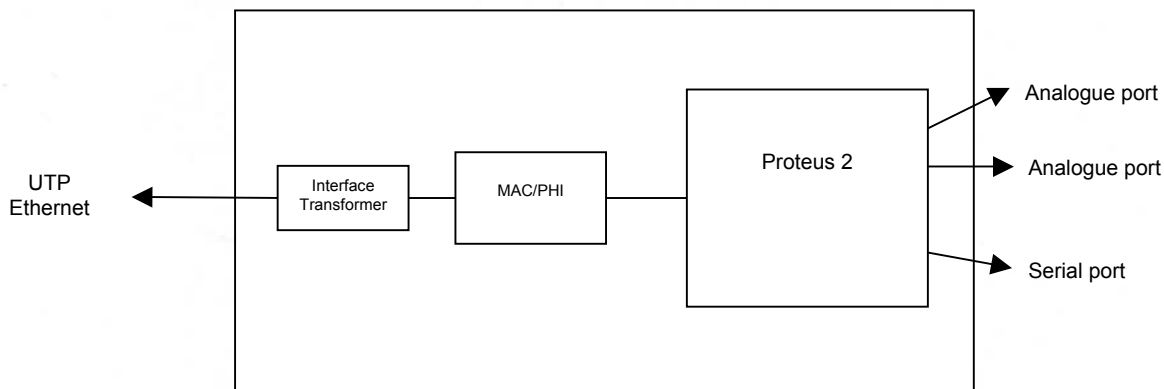
An Ethernet interface is one of the options available on Chiron's Proteus communications processor range.

This solution uses an industry standard MAC/PHI chip and makes a simple interface for equipment to be connected via an Ethernet link. Through an Ethernet interface the user gets access to the wider Internet Protocol (IP) environment connection, for example, to corporate IP networks, ADSL lines and local areas networks.

The Ethernet interface can carry both voice and data calls from the Proteus Serial Data and POTS/Voice interfaces. Protocol stacks are included for call signalling and for carrying the voice and data traffic.

This gives a compact implementation for Ethernet that is both cost effective and easy to integrate within your own product.

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



Feature Overview

Within a single Integrated Circuit package, Proteus includes the functions required for an Ethernet interface:

- Ethernet protocol support – with external MAC/PHI 10/100 Mbps operation with auto negotiation is supported
- TCP/IP data stack for error-free transmission of data and flow control across an IP network
- Voice over IP (VOIP) support with call control and real-time protocols over the IP network
- Echo cancellation on VOIP calls
- Secure polling function for systems where regular checking of device integrity is required
- Application Programming Interface for user customisation



