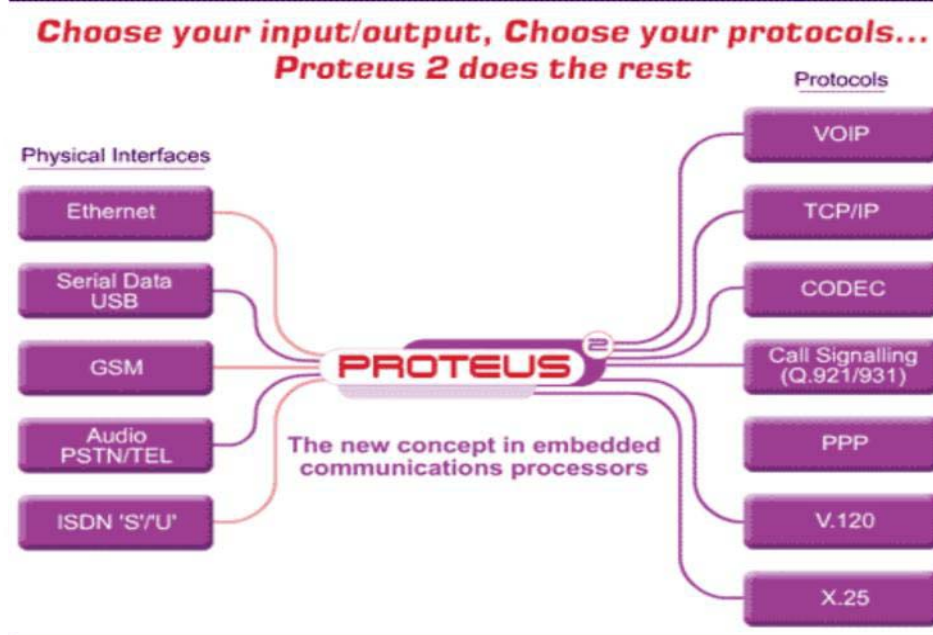


## PROTEUS II – *THE* COMMS PROCESSOR

Proteus II is a highly integrated Comms processor which addresses the problems of many of today's developers who are faced with linking their systems with a variety of physical interfaces as well as combining a variety of protocols.



Historically protocol stacks have been limited to a single physical interface. Now Proteus allows the developer to expand his imagination. As a single highly integrated Comms processor, Proteus allows the developer to build a single interface to his system which can then use a variety of network connections and protocols. In fact he can use multiple Interfaces and protocols, simultaneously or to build multi routing systems.

For example Proteus can support multiple Analogue; Serial, ISDN, Ethernet or GPRS ports.

In conjunction with the Physical Interfaces (outlined in more detail in the attached Technical Specifications) most major comms protocols are supported and with the advantage of an advanced Applications Programming Interface (API), the developer has the opportunity of configuring Proteus in many ways. In fact Proteus has the power to run many users applications without there being a need for the developer to have a separate processor. Chiron have already used Proteus in such manner to build ISDN Telephones; I.P telephones; Alarm systems etc., where Proteus can interface to external devices such as LCD's; Keypads, relays, and be the heart of the applications system.

Proteus is a highly integrated comms processor which is constantly evolving and will be adding new features such as JPEG compression in the near future.

Proteus is unique in having all functions written in software by Chiron. This provides a high level of integration when compared to competitive devices which may need external components such as ~ codec's; HDLC drivers; CLI chips; and ISDN line interface chips.



Proteus is available from Chiron Technology in a number of pre configured solutions which can be used in 'Drop in' application solutions, and with Chiron's reference designs can quickly offer the developed a quick development path. Alternatively the Processor can be configured to users own requirements of Physical Interfaces and protocols. With the API this can be under user control or Chiron's experience can assist developers in achieving 'Fast Track' solutions.

Typical Configurations in which Proteus has been used effectively by integrators include:-

### **ISDN T.A.'s**

To offer multiple Data and multiple analogue ports

### **Credit Card Terminals**

Proteus has enabled Card terminal manufacturers to built a range of compatible plug in boards based around Proteus which has enabled them to offer a standard interface to the terminals processor with a variety of network interfaces across ISDN; Ethernet/DSL and GPRS, with Proteus handling all the protocol conversion.

### **Alarm Panels**

Most Alarm panels dial out via analogue or serial ports. Proteus systems have allowed a range of manufacturers to cost effectively route alarm calls over ISDN; DSL; GSM as well as GPRS. Specific Proteus functions for the security industry include secure encrypted polling; line snatch and SMS messaging. In addition Proteus's multiple paths allow for alternate routing to be available.

### **PBX Line Cards**

With the capability of handling digital audio as well as the inbuilt Codec Proteus can be used for line interface cards to analogue; ISDN or I.P networks.

### **VOIP/ISDN Telephones**

Chiron has produced a range of ISDN and VOIP telephones and diallers for clients, using Proteus as a cost effective central unit to not only drive multiple comms but also keypads, LCD's etc.

### **Call Routers**

Proteus has been used to built a number of call router systems which can switch between multiple analogue; ISDN and GSM/GPRS links. The Proteus API has been used to enable remote uploading of routing tables to the system.

### **Multi Media Payphones**

Complete subsystems have been built around Proteus fro multi-media payphones. In this case Proteus has been used to interface analogue and data across ISND and I.P. networks. The API has been used for sophisticated power management which allows the unit to operate in restricted power mode whilst charging a battery form a number of power sources.

### **Call Points**

Many organisations are looking to reduce the cost of fixed lines. Proteus has been used in call help points in public places to automatically dial to a help point when needed. This can be across ISDN or I.P. networks

### **Broadcast Systems**

Proteus has been used to offer Broadcast interfaces for data and high quality voice, across ISDN; I.P. and satellite systems.

For more information see attached technical Specification sheets or contact Chiron direct.