

CHIRON ETHERNET DATA MODULE



The Chiron Ethernet Data Module offers a cost effective way to upgrade equipment that does not support Ethernet and IP networking to connect into IP networks. With the Ethernet module many applications can be easily migrated away from leased lines or dial-up links to IP networks thus offering significant communications cost savings.

The module is designed to be easily installed within other equipment in place of an existing communications interface such as a modem. Customised layouts for specific End User equipment are available.

This unit is one of a family of communications modules from Chiron, including ISDN, GSM/GPRS and ETHERNET. The user interface on each module in the range is identical, so it is very easy for users to develop a single base unit (e.g. credit card terminal), on which a range of network interface solutions can be offered.

The user interface to the module is a standard serial data port supporting Hayes modem commands. Any existing system that supports a direct serial data connection or connects via a dial-up modem or ISDN TA can be adapted to Ethernet and IP without requiring any changes.

The module incorporates a TCP/IP data protocol stack, which is essential in most Ethernet connections. The user's equipment is not required to support these complex protocols.

Where dial-up connections are being replaced, the 'always on' feature of IP networks also means that new system features such as much faster polling rates for telemetry, 'keep alive' signals for alarms, etc can be implemented without impacting on communications costs.

A secure polling algorithm is incorporated into the module for systems (such as security) where remote monitoring of system integrity is required.

Typical Applications

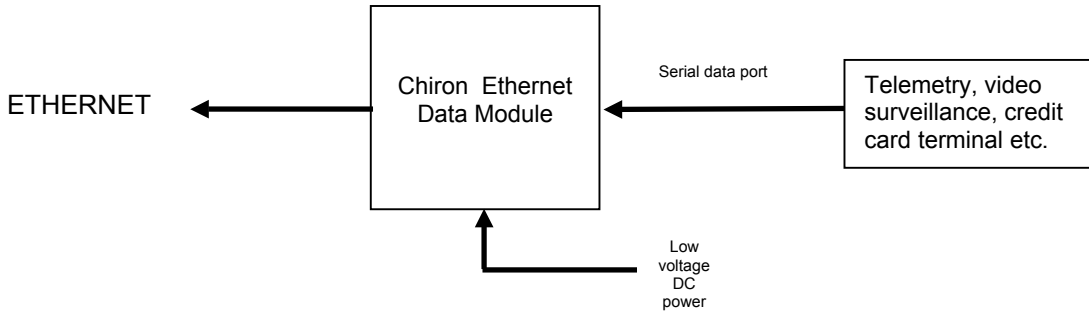
- Credit card authorisation terminals
- Alarm systems
- Video surveillance
- Remote equipment management
- Telemetry



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Product Overview

The Chiron Ethernet module is for integration into other equipment and allows existing communications links to be migrated to Ethernet and IP networking. The module is easy to install into existing or new applications and is compatible with any equipment designed to operate with a modem for data communications. Various configuration options allow flexible use of the communications channel.



Feature overview:

- 10/100Mbps Ethernet interface.
- Serial data interface with Hayes command dialling for data connections.
- Full TCP support for error-free data communications and flow control.
- Polling algorithm, protected by Challenge/Handshake algorithm with MD5 encryption.
- Auto-dial and auto-answer.
- 'Virtual serial cable' mode with automatic call set-up and recovery.
- All configuration parameters held in non-volatile memory safe from power loss.
- 5V power input.

Ease of Use

Unlike other solutions that require the attached equipment to have knowledge of IP networking and support IP protocols, the Chiron Ethernet module has the 'look and feel' of a modem, and can thereby be used without the need to modify the existing equipment.

<p>Technical Details</p> <p>Ethernet Interface</p> <ul style="list-style-type: none"> • 10Mbps and 100Mbps (10/100BaseT) with auto-negotiation • UTP • Standard RJ45 socket • Auto-sensing of Ethernet 802.2, DIX and SNAP formats <p>Data interface</p> <ul style="list-style-type: none"> • Hayes compatible data port • Baud rates up to 115200 bps • RTS/CTS flow control • Outgoing and incoming calls 	<p>IP</p> <ul style="list-style-type: none"> • IP Version 4 • TCP • TCP packet sizes configurable • Echo request supported (PING) <p>Polling</p> <ul style="list-style-type: none"> • Configurable polling host address • Configurable polling interval <p>Physical</p> <ul style="list-style-type: none"> • Supply voltage 5V • Serial interface at 5V logic levels • 90mm x 90mm x 20mm
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