



Netiom is a stand-alone network aware Input / Output module which can be controlled over most networks including the Internet. It can be accessed from the Internet over a standard ADSL or other always on connection making remote monitoring and control a cost effective option.

It has 16 digital and 4 analogue inputs, 16 digital outputs and an RS232 serial port, all of which can be accessed from a standard web browser. Web pages are served from its 32K bytes of on board non-volatile memory. Graphic and sound files can be served as well as static and dynamic HTML pages. Web pages may be password protected and can be fully customized. Netiom can work as a totally independent web server or as part of a larger web site.

As well as serving web pages, Netiom can be used to connect to remote servers. Connections can be established on demand in response to specified events or on a regular timed basis. Once connected, the server can have complete control over Netiom's operation.

E-mails can be generated in response to specified events. The message and the subject may be customized and may contain the current status of all the inputs and outputs.

A watchdog mode is available which allows Netiom to monitor network connections and operate outputs when failure is detected.

Special interface software is included which can be use to configure Netiom and download web pages via a PC's serial port. Network settings can be manually set or automatically obtained from a DHCP server (usually an ADSL router).

**Features:**

16 digital and 4 analogue inputs.

16 digital outputs with direct connection to relay and display expansion modules.

Serial port with programmable baud rate.

HTTP server with 32K bytes of web space.

Web space can be password protected.

Network client. Connections triggered from input events or timed.

Generates e-mails in response to specified events.

Watchdog mode: can be used to monitor network connections.

10 MIPS ethernet interface.

Will work on local or wide area connections (Internet)

Automatic detection of IP address (DHCP).

Response to Pings.

**Specification:**

Size 110mm x 110mm

Power 12V d.c. at 50mA

Serial Port Programmable baud rate 2400 to 38400 baud (Handshaking not supported).

Ethernet 10 MIPS via RJ45 connector

Outputs (16) Open collector 50V d.c. at 50mA

Digital Inputs (16) TTL / CMOS / dry contacts (10K ohm pull up).

Analogue Input (4) 10 bit resolution with 5% accuracy. Max voltage 5Volts.

**Connections:**

Digital Inputs

Screw terminal or 10 way header.

**Outputs**

Screw terminal or 10 way header.

**Analogue Input**

Screw terminal

**Power**

Screw terminal

**Serial**

9 pin D connector

**Ethernet**

RJ45

**Extension options:**

A. Relay Expansion Module

B. LED Display Module

C. Optoisolation Module