

n2 REMOTE SITE MANAGER

Clearbox Systems is proud to present n2, its next generation in innovative monitoring and control solutions. n2 provides the same industrially hardened reliability, low-power design and powerful CPU established with nControl but continues this trend in innovation by providing several times more processing speed and expandability in half the physical size. The shift to a high-speed USB peripheral architecture opens up a whole new world of options allowing the versatility of integrating almost any off-the-shelf USB peripheral into your system, including serial interfaces, webcams, GSM/3G modems and GPS receivers. The inclusion of a HDMI port allows easy connection of a DVI monitor for fast and painless configuration. Plug a keyboard and mouse into the USB ports and you have a tiny, fully fledged industrial computer at your fingertips. With modularised hardware, combined with the powerful Newpoint Technologies, Inc. Compass™ Software Suite, the system uniquely addresses distributed remote site monitoring and control.



WHO IS CLEARBOX SYSTEMS?

Clearbox Systems is a specialist provider of remote monitoring and control solutions and is the Australian representative for Newpoint Technologies Inc. Clearbox Systems provide solutions ranging from the monitoring and control of a single device to turnkey monitoring, control and automation systems for nation-wide networks.

Clearbox Systems, with proficiencies in Project Management, Software Development, and Systems Design has developed Network Management Solutions for a range of different business and industries including Government, community broadcast, teleports, satellite infrastructure, defence, public infrastructure and many others.

INNOVATIVE USB ARCHITECTURE

A core design feature of n2 is the inclusion of 8 high-speed USB ports, giving the n2 the versatility of being able to connect a number of peripherals which extend the capability of n2. Clearbox manufactures a range of stackable peripherals to give an n2 unit extra serial ports, digital/analogue IO ports or Ethernet ports.

The USB architecture is particularly useful for remote site monitoring as it means you only pay for what you need, which can significantly reduce the cost of a typical rollout. In addition, it gives n2 the ability to connect to almost any off the shelf peripheral, providing flexibility to monitor and control system aspects previously never considered possible.

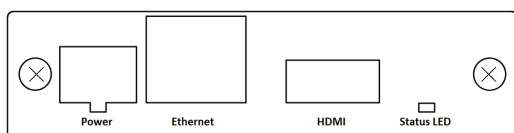
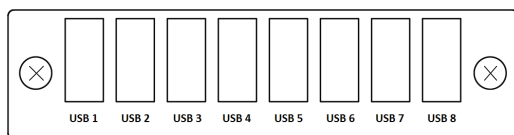
To complement the n2, Clearbox Systems manufactures a line of specialized industrial-grade USB peripherals in the same form factor as n2, including:

- n2 Serial – 4 port RS232/485/422 Serial Module
- n2 DIO86T – 8 Digital In, 6 Relay Out, temperature
- n2 AIB – 8 Analogue Inputs 0-10V or 4-20mA
- n2 Eth – 7 Additional Ethernet ports

In addition to Clearbox Systems specialised peripherals, almost any existing off-the-shelf USB peripheral can be integrated with n2, such as:

- Camera / video interfaces for remote visual monitoring.
- GSM/3G modems for wireless WAN connectivity
- GPS receivers for location-based applications
- Professional-grade audio input/output interfaces

PRODUCT SPECIFICATIONS



Environmental:

Operating Temperatures: 0 to +45°C
Relative Humidity: 90%

Power:

Input Voltage: 8-52 DC unregulated
Power consumption: max 25W*

*Actual power consumption will vary depending on application

Interfaces:

1 x 10/100 Mbps Ethernet Ports with auto crossover
8 x High Speed USB 2.0 Ports
1 x HDMI Port for DVI-D compliant monitors

Specifications:

600MHz ARM CPU
256MB SDRAM system memory + 256MB FLASH memory
microSD Card for logs / configuration

Physical:

Size: 92mm x 87mm x 25mm
Weight: approx. 500 grams

Certifications:

FCC
C-TICK Approved

PERIPHERAL SPECIFICATIONS

Clearbox Systems have a range of USB peripherals which can extend n2's capability including:

n2 Serial

4 port RS232/485/422 Serial that can be used with n2, Linux and Windows.

Features:

- 4 configurable serial ports
- Software switchable between RS232/422/485
- Supports RS422GPIO
- TX and RX LED indicators and Power LED indicator
- Can be used with MS Windows™
- Power and status LED indicators

n2 DIO86T

8 Digital Input channels 6 Digital output channels. It also has an internal temperature sensor.

Features:

- 8 DI channels with 1 Common
- 6 relay DO channels
- Internal temperature sensor ranging from -35°C to +85°C
- LED status indicators for each DI/DO
- DI voltage input ranges from 5 to 16V DC
- Inputs and Common protected from over voltage
- Relay output is a form A with 1 AMP at 24 V AC/DC ratings
- Power and status LED indicators

n2 AI8

8 Analogue Input channels supporting standard analogue input ranges.

Features:

- 8 AI channels with 1 Common
- AI input ranges 0-10V, 0-5V, 0-2.5V, 0-1.25V via software selectable gain and 4 to 20 mA with additional resistor
- Inputs and Common protected against over voltage
- Power and status LED indicators

n2 Ethernet

7 Ethernet ports with activity and link LED indicators.

Features:

- 7 - 10/100 Mbps auto-sensing Ethernet ports
- Activity and link LED indicators on each port
- Power and status LED indicators

n 2 SIZE



n2 is big on performance but small in size as shown by the comparison with a pen.

Combined with Clearbox's range of stackable USB peripherals, n2 delivers compact, versatile and powerful monitoring and control solutions.

C O N T A C T

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