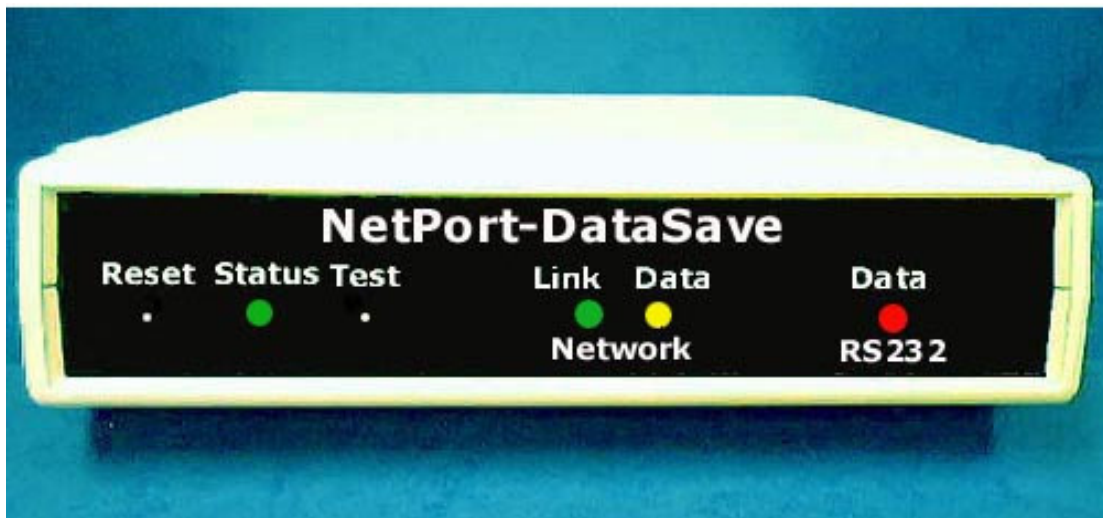




NetPort-DataSave



The **NetPort-DataSave (NPDS)** is a network attached device which is capable of storing and forwarding a RS232 serial data stream. The NetPort-DataSave uses standard TCP/IP network protocols to communicate with other devices on the local area network, or the Internet.

The NPDS is designed to be used in areas where serial data generated by another piece of equipment must be saved for future analysis. The equipment in question must output its data as a stream of bytes on a RS232 interface.

The NPDS can be configured to operate in either **passive data storage** mode or **active data forwarding** mode.

In the **passive data storage** mode, all data received by the NPDS is written into the Flash memory filing system. The user can define the maximum size of the log files. When the defined file size is reached the file is closed and a new file is started for storing subsequent data. A host computer may then download the stored files at any time using a standard FTP client. Once the files have been downloaded the user may delete the files from the NPDS flash memory filing system. 4MBytes of memory is reserved for data storage. The user has the option of storing data in compressed format, which depending upon the data format could increase the storage capacity to 8Mbytes.

In the **active data forwarding** mode, the data received by the NPDS device is output on a user defined TCP/IP socket connection to another host computer attached to the network. The host computer is responsible for saving the data. If the NPDS loses the connection to the host computer, or cannot make a connection, the NPDS will save the data in its own memory and flash filing system. When the connection is eventually established with the host computer the NPDS will output all the saved data in the correct sequence from its filing system to the host computer.

The NPDS may be configured to log data either from its RS232 Serial Port, or from a user defined port on a TCP/IP Socket connection.

A factory build option allows a second RS232 port to be supported by the NetPort-DataSave unit. This allows a modem to be connected to the second NPDS RS232 port enabling a remote PPP connection to be established with the NPDS unit, enabling a host to dial into a remote NPDS unit, to manage and retrieve data files.

The NPDS unit is supplied with a Windows 98/2000/XP management program which may be used to configure the NetPort-DataSave unit using the Windows GUI. Alternative administration /configuration facilities are accessible via TELNET or the Remote RS232 Serial port (using VT100/ANSI type screen interface).

Features

32 bit ARM RISC processor

16MByte of RAM memory

2 Mbyte of ROM memory

4 Mbyte of Flash data Filing memort

10/100 Base T, RJ45

Link Status Green LED

Traffic Status Orange LED

System Status Red LED

Data Status Green LED

All Serial Lines are protected against static discharge

Real time clock

Desktop with wall hanging fixtures

Benefits

12-month return-to-base warranty

Easy to set up and use, no need to know hoe the TCP/IP works.

Browser capability to configure, view and monitor buffer status and live data.

High speed, reliable data transmission and reception.

Surge protected signals on all ports - little possibility of damage by attached peripherals.

Allows equipment with serial communication port to be placed transparently on the TCP/IP network.

Allows real time and real time of-line data logging of slow or fast data streams

Allows real time and date stamping of the logged data bytes.

Allows access to the logged data using a modem should the network goes down.

OEM Software Kit available on request.

Technical Specification

Processor: 32 bit ARM RISC processor running at 50MHz
RAM: 16 MByte
ROM: 2 MByte
Flash Filing data memory: 4 Mbyte (Retains data for about 10 years)
Network Interface: 10/100 Base T , RJ45 connector
Network Protocol: TCP/IP and PPP
Real Time Clock: SuperCap battery backed up real time clock

Data Logging Serial port One

Connection: V24/RS232 9 pin 'D' male , AUTO detect DCE / DTE Electrical Signal Interface (all signals switched)
Throughput: 50bps-115.2Kbps
Control Signals: TX, RX, RTS, CTS, DTR, DSR, DCD and 0v signal.
ESD Specification: ± 15KV Human Body Model
± 15KV IEC1000-4-2 Air Discharge
± 18KV IEC1000-4-2 Contact Discharge
RX Internal FOFO: 32 Bytes Buffer
TX Internal FIFO: 32 Bytes Buffer
Data Bits: 5, 6, 7, 8 bits
Stop Bits: 1 or 2
Parity: Odd, Even, Mark, Space or None

Modem Port for Remote Access

Connection: V24/RS232 9 pin 'D' male
Throughput: 50bps-115.2Kbps
Control Signals: TX, RX, RTS, CTS, DTR, DSR, DCD and 0v signal.
ESD Specification: ± 15KV Human Body Model
± 15KV IEC1000-4-2 Air Discharge
± 18KV IEC1000-4-2 Contact Discharge
RX Internal FOFO: 32 Bytes Buffer
TX Internal FIFO: 32 Bytes Buffer
Data Bits: 5, 6, 7, 8 bits
Stop Bits: 1 or 2
Parity: Odd, Even, Mark, Space or None

Visual Aids

Link: Status LED green
Traffic: Status LED orange
System: Status LED red
Data: Status LED green

Engineers facilities

Reset: Switch
Test/Diagnostic: Switch

Electrical and Physical

Power Supply: Plug Top external, rated at 5VDC@600ma, CE and TUV/BS approved
Dimensions: L 170.5 x W 150.5 x H 40.0mm
Weight: 350gm (Net)
Operational Conditions: Temperature 3-45 °C, Humidity 0-80% (non condensing)



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