

PortStore

RS-232/485 - Ethernet converter - 2MB buffer (Email version)

Converter of the serial RS-232/485 line to Ethernet and back at TCP/IP and UDP/IP protocols with 2048 kB of a flash memory for data storage from the serial port for the case of the TCP connection inaccessibility. If the internal buffer memory is full, the device will send e-mail to the predefined address.

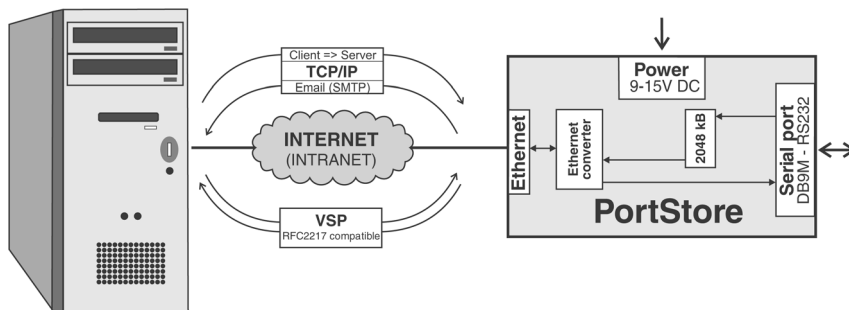


PS Eye software for data download and store them to defined file with using Windows is free in source code.

The typical application of the PortStore device is storing pricing information from phone branch exchanges (the data is received from RS-232 interface). Then this data can be read over Ethernet (TCP/IP) to any analysis software.

Another typical application is RS-232 printer data backup, especially for security centrals. This data can then be downloaded and processed.

Applications and topology



- PBX systems
- Remote printer connection
- Data recorders
- EZS log storage

Basic features

- 1x serial port **RS-232** or **RS-485** accessible via Ethernet (TCP/IP)
- The serial port incoming data are stored to a **2048kB buffer memory**. When a TCP connection is established the data is sent as a continuous “RAW TCP stream” data flow.
- The device can **send e-mail when the memory is full**, or after power failure.
- PortStore can be used for **storing RS-232 incoming data** as well as for **remote serial port access** over Ethernet network. Remote port can be controlled by **Virtual driver for Windows** such as **COM 5** (driver for Windows 2000/XP is free) compatible with RFC2217.
- **Simple** and intuitive **windows software** for device setup, quick installation.
- The device can be ordered in a wall-mounting or DIN molding version or as a telecommunication device.
- **Programming libraries** for the MS Visual Basic, Delphi, Borland C++, JAVA, PHP ..

Technical parameters

Serial port RS-232	
+ Data bits	7 or 8 or 9
+ Stop bits, Parity	1 or 2, None / Odd / Even / Mark / Space parity
+ Baud rates	50..115.2 kBd – entire range, step = 50 Bd
+ Data flow control	Xon/Xoff, CTS/RTS, None
+ Interface	1x DB9M (RxD,TxD,RTS,CTS,GND)
+ Used RS-232 signals	RxD,TxD,RTS,CTS, (DTR output – defined voltage level only)
+ Remote RS-232 parameters settings	RFC2217 with using NVT over TCP/IP stream if NVT enabled
+ Virtual Serial Port SW	HW VSP available for OS: Windows 98, 2000, XP, NT 4.0
Buffer memory	
+ RS-232 Buffer memory	2 048 kB Flash for incoming serial data
+ Buffer overflow signaling	Network: Email alert when 75% and 90% buffer capacity full RS-232: HW or SW handshake if buffer is full
+ Buffer type	Linear FIFO data space
+ Buffer data readout format	RAW binary TCP/IP stream
Serial port RS-485	
+ Termination	None, for longer lines external termination required
+ Isolation	RS-485 line not galvanic isolated to the device's power supply
+ RS-485 serial port settings	Half duplex and no HW echo recommended
Ethernet port	
+ Interface	RJ45 (10BASE-T) – 10 Mbit or 10/100 Mbit network compatible only!
+ Compatibility	Ethernet: Version 2.0/IEEE 802.3
+ Supported protocols	IP: ARP, TCP + NVT (Network Virtual Terminal)
+ Supported TCP/IP modes	TCP Server only, SMTP client
+ TCP connection close timeout	timeout 50s (with enabled NVT – can be prolonged by ACK/NOP)
Environment	
+ Temperature range	Operating: +5 .. 50 °C Storage: -10 to 85 °C
+ Humidity (non-condensing)	5 to 95 %
Physical parameters	
+ Power supply requirements	8-24V / Max. current consumption 200 mA DC - barrel (coaxial) power connector, GND on the shield
+ Dimensions	28 x 105 x 135 [mm] (H x W x D)
+ Weight	395 g
Functional parameters	
Device SETUP configuration options	- RS-232 Setup over any RS-232 terminal with DIP1=ON - TCP/IP Setup - using any telnet terminal on the TCP/IP 99 port - Hercules SETUP utility via UDP (basic network parameters only)
Diagnostic LEDs	- Power (green) - Link & Activity (yellow)