

# PortStore2

## RS-232/485 - Ethernet converter - 2MB buffer (TCP Client/Server)

Converter of the serial RS-232/485 line to Ethernet and vice versa at TCP/IP and UDP/IP protocols. It provides 2048 kB flash memory for data storage from the serial port in case the TCP connection is inaccessible.



When in the TCP Client/Server mode, the device will initialize a TCP connection and try to send the data to server.

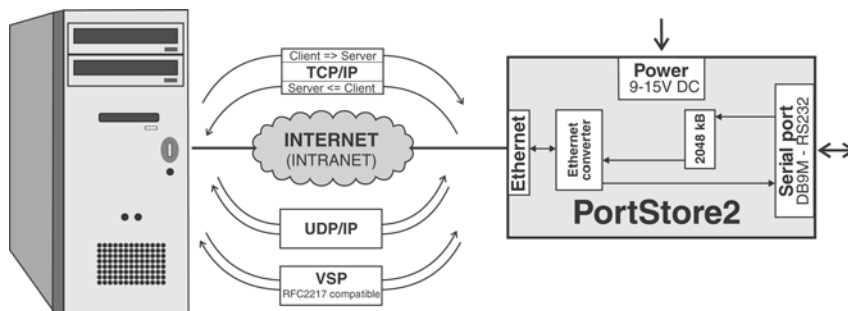
Built-in virtual serial port support according to RFC2217 specifications

A typical application of the PortStore2 device is storing call accounting data (CDR/SMDR) from Phone Branch eXchanges (the data are received from RS-232 interface). Then these 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.

The software for data reading (PS Eye) is free including the source codes.

### Applications and topology



- PBX systems (CDR / SMDR)
- 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 into a **2048kB buffer memory**. When a TCP connection is established, the data are sent as a "RAW TCP stream" data flow.
- The device can work in **TCP Server** or **TCP Client/Server** mode
- PortStore2 can be used for **storing RS-232 incoming data** as well as for **remote serial port access** over Ethernet network. The 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.
- **Programming libraries** for 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	<b>Network:</b> None <b>RS-232:</b> 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, UDP, TCP + NVT (Network Virtual Terminal)
+ Supported TCP/IP modes	TCP Server, TCP Client/Server
+ TCP connection close timeout	timeout 50s (with enabled NVT – can be prolonged by ACK/NOP)
Environment	
+ Temperature range	<b>Operating:</b> +5 .. 50 °C <b>Storage:</b> -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	- <b>RS-232 Setup</b> over any RS-232 terminal with DIP1=ON - <b>TCP/IP Setup</b> - using any telnet terminal on the TCP/IP 99 port - <b>Hercules SETUP</b> utility via UDP (basic network parameters only)
Diagnostic LEDs	- Power (green) - Link & Activity (yellow)