CONNECTING A SIEMENS SIMATIC S5 PLC TO YOUR NETWORK

Abstract

This document explains how to connect a Siemens Simatic S5 PLC to an Ethernet network through our family of Serial-to-Ethernet converters, SSE232. Read this Technical Note if you need to achieve remote connectivity between a PLC and a networked computer, using either any compatible programming software (for example, *S5 Programming tool for Windows*) or any SCADA, such as SIMATIC ® Protocol/Pro V5.2 SP3 (protocol AS511) or Intellution ® Fix32 (protocol AS511).
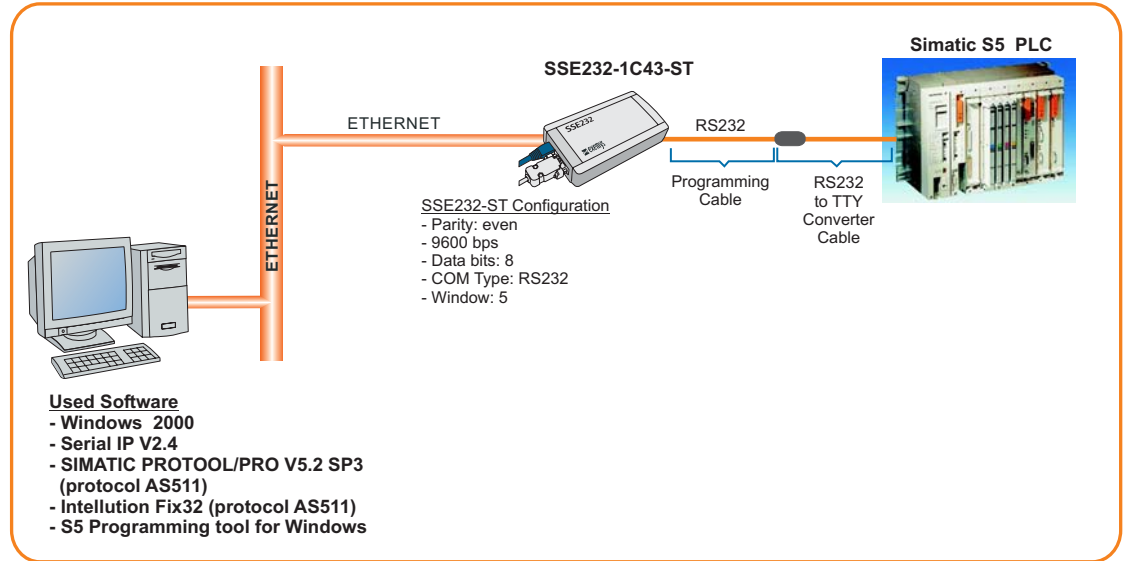
Used Hardware

- Siemens SIMATIC S5 PLC
- Programming cable with an RS232 adapter (RS232 to TTY converter).
- Serial-to-Ethernet converter, Exemys SSE232-1C43-ST

Used Software

- Operating System: Windows 2000 ®
- Exemys Device Locator: software used to find any Exemys device attached to your LAN.
- Programming software: S5 Programming tool for Windows
- SCADA Software #1: SIMATIC Protocol/Pro V5.2 SP3 (protocol AS511)
- SCADA Software #2: Intellution Fix32 (protocol AS511)
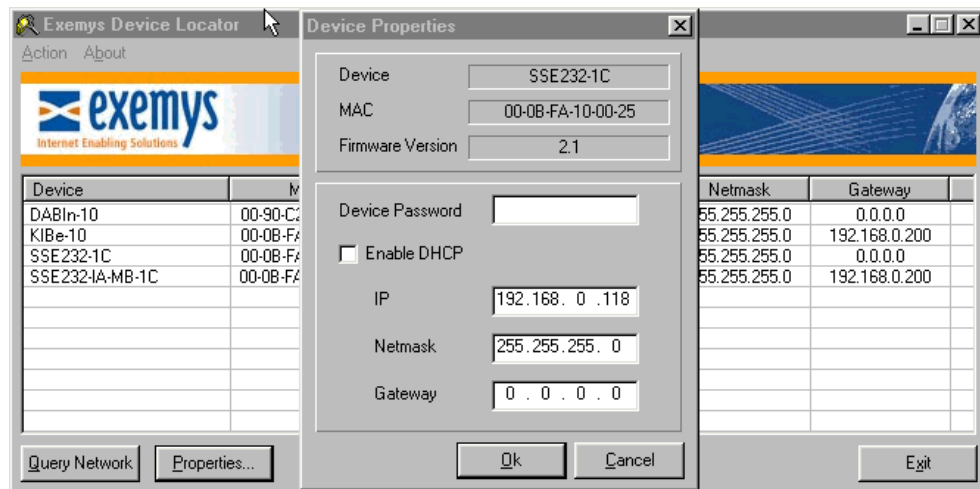- Serial-to-Ethernet software redirector, Serial IP V2.4 or higher.

![exemys logo] **exemys**
Internet Enabling Solutions

Procedure

Connect your computer, your Exemys converter, the adapter and your PLC as follows:

SSE232-ST Configuration
- Parity: even
- 9600 bps
- Data bits: 8
- COM Type: RS232
- Window: 5

Used Software
- **- Windows 2000**
- **- Serial IP V2.4**
- **- SIMATIC PROTOOL/PRO V5.2 SP3**
  (protocol AS511)
- **- Intellution Fix32 (protocol AS511)**
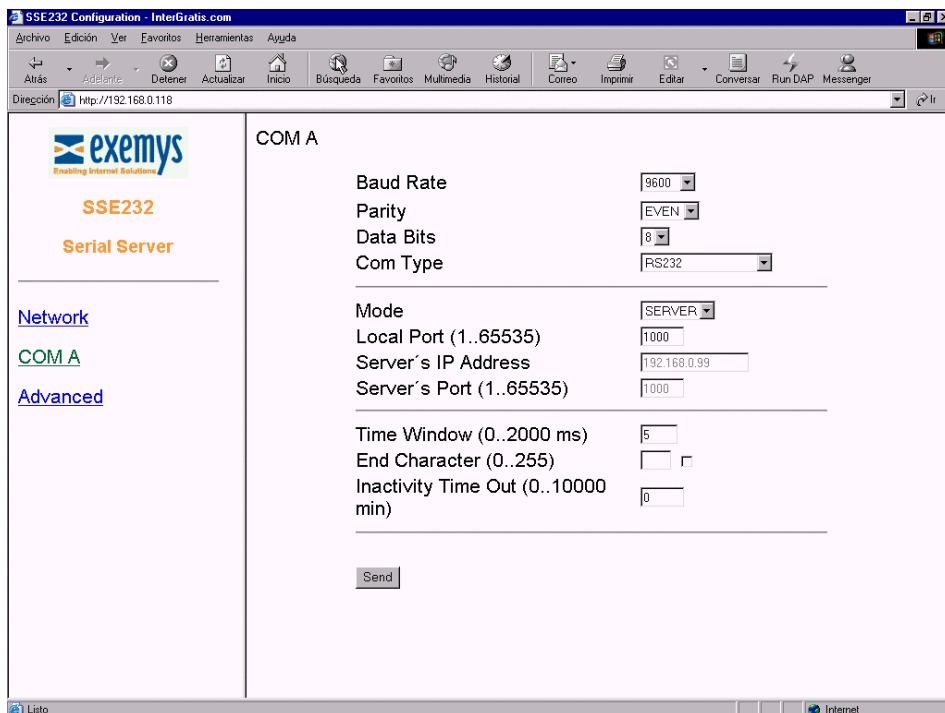- **- S5 Programming tool for Windows**

Configure your device with Exemys Device Locator

- Assign a valid IP address, Netmask and Gateway to your SSE232-ST.
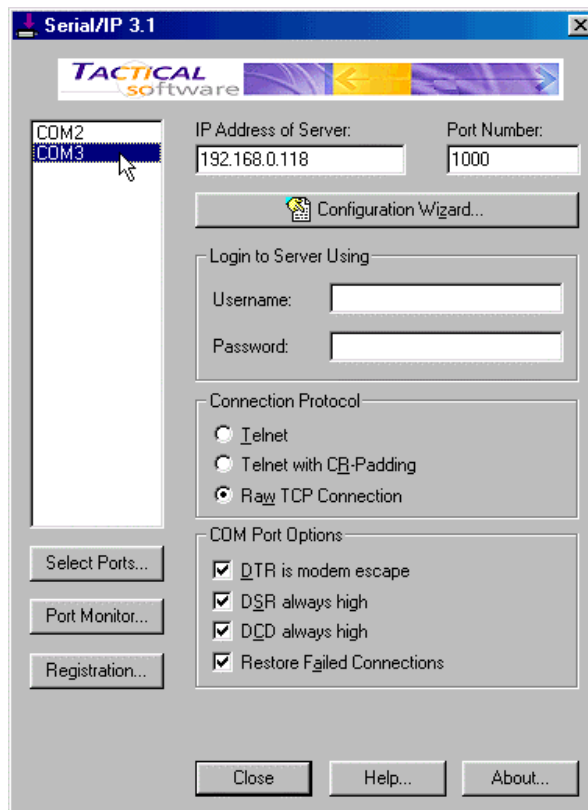

Configure the serial port in your SSE232-ST

- Baud rate: 9600 bps
- Parity: even
- Data Bits: 8
- Com Type: RS232

Configure Serial IP

- Install and run Serial IP. Add a virtual serial port. Configure the virtual port to route data into your local IP and TCP port 1000. Select *Raw TCP Connection* and enable all options in the *Com Port Options* menu.

Remote access to your PLC

If using a Programming Software

- Select the virtual serial port in the application (the one you configured using Serial IP).
- Configure the baudrate, 9.600 bps

If using a SCADA

- Select the virtual serial port in the SCADA (the one you configured using Serial IP) and configure the software to enable communication using AS511 protocol.
- Configure the baudrate, 9.600 bps

Following the steps described above, you will be able to use your PLC just as if it was connected directly to your PC.

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www.exemys.com	