

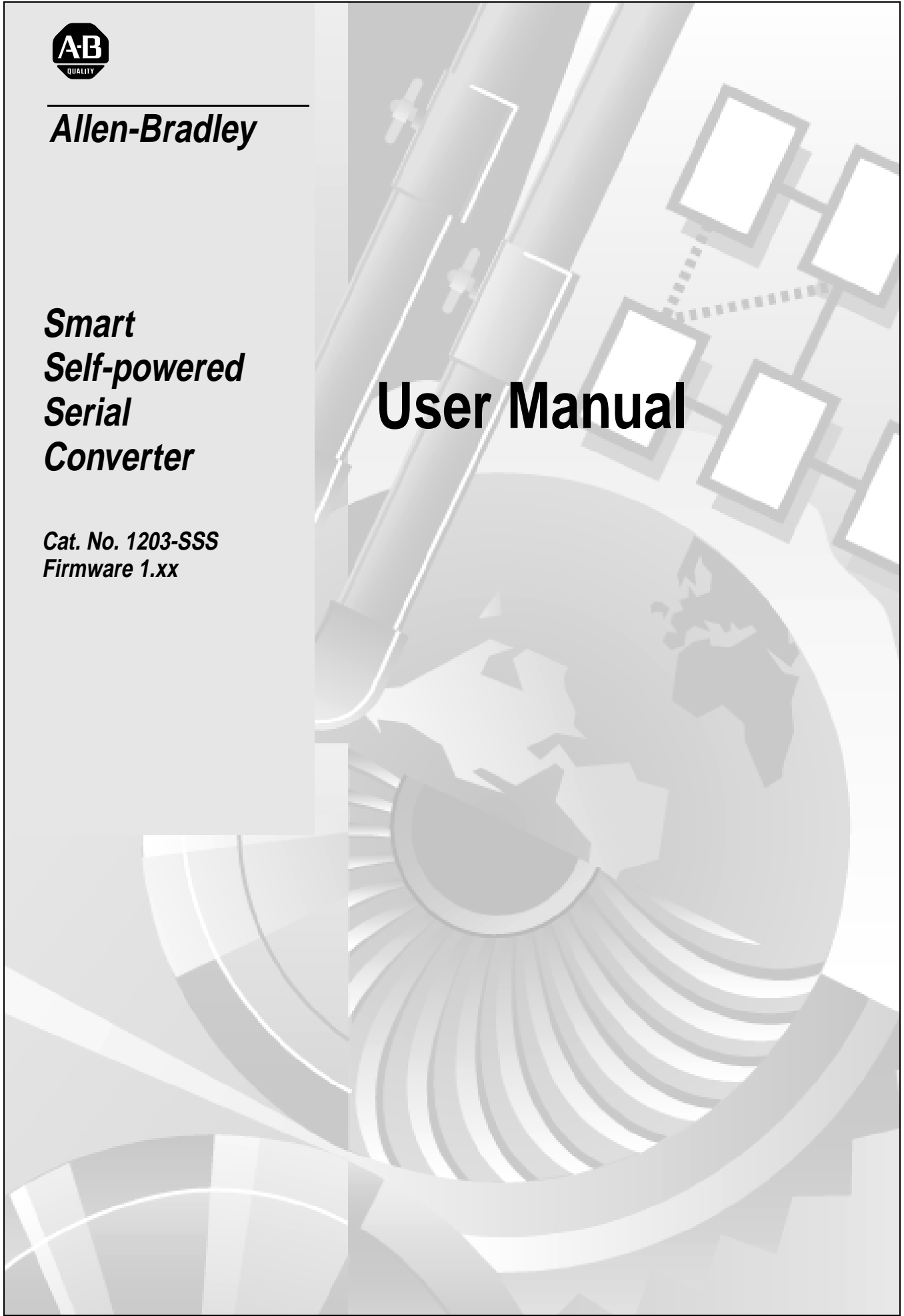


Allen-Bradley

**Smart
Self-powered
Serial
Converter**

**Cat. No. 1203-SSS
Firmware 1.xx**

User Manual



Important User Information

Because of the variety of uses for the products described in this publication, those responsible for the application and use of this control equipment must satisfy themselves that all necessary steps have been taken to assure that each application and use meets all performance and safety requirements, including any applicable laws, regulations, codes and standards.

The illustrations, charts, sample programs and layout examples shown in this guide are intended solely for purposes of example. Since there are many variables and requirements associated with any particular installation, Rockwell Automation does not assume responsibility or liability (to include intellectual property liability) for actual use based upon the examples shown in this publication.

Rockwell Automation publication SGI-1.1, *Safety Guidelines for the Application, Installation, and Maintenance of Solid-State Control* (available from your local Rockwell Automation office), describes some important differences between solid-state equipment and electromechanical devices that should be taken into consideration when applying products such as those described in this publication.

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Throughout this manual we use notes to make you aware of safety considerations:



ATTENTION: Identifies information about practices or circumstances that can lead to personal injury or death, property damage or economic loss.

Attention statements help you to:

- Identify a hazard.
- Avoid the hazard.
- Recognize the consequences.

Important: Identifies information that is critical for successful application and understanding of the product.

Summary of Changes

The information below summarizes the changes made to the company wide templates since the last release.

Updated Information

No changes have been made to this manual.

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Using This Manual

Objectives

Read this preface to become familiar with the rest of the manual. In this preface, you will read about the following:

- Who should use this manual.
- The purpose of this manual.
- Terms and abbreviations.
- Conventions used in this manual.
- Rockwell Automation support.

Who Should Use This Manual?

Use this manual if you are responsible for using the 1203-SSS converter to install, wire, program, or troubleshoot control systems.

This manual is intended for qualified service personnel responsible for using the 1203-SSS converter. You must have previous experience with and a basic understanding of electrical terminology, programming procedures, required equipment, required software, networking, and safety precautions.

Purpose of this Manual

This manual is a learning and reference guide for the Smart Self-powered Serial converter. It describes the procedures needed to install, configure, and troubleshoot the converter. Before you install, operate, or configure the converter, you should read this manual in its entirety.

Contents of this Manual

This manual contains the following information:

Chapter	Title	Contents
Preface	Preface	Describes the purpose, background, and scope of this manual. Also provides information on safety precautions and technical support.
1	Overview	Provides an overview of the 1203-SSS converter.
2	Installation	Provides procedures for installing the 1203-SSS converter.
3	Configuring the 1203-SSS Converter	Provides procedures for configuring the 1203-SSS converter, including how to set up a serial connection to the converter, navigate in the converter's software, edit its parameters, and view its event queue.
A	Specifications	Provides specifications for the 1203-SSS converter.
B	1203-SSS Converter Parameters	Provides detailed information on the 1203-SSS converter's parameters.

Safety Precautions

Please read the following safety precautions carefully.



ATTENTION: Only personnel familiar with SCANport devices and the associated machinery should plan or implement the installation, start-up, configuration, and subsequent maintenance of the product using a 1203-SSS converter. Failure to comply may result in personal injury and/or equipment damage.



ATTENTION: Risk of severe bodily injury or equipment damage exists. The *Comm Flt Action* (4) parameter allows the user to change the default configuration that would allow the converter and associated drive to continue to operate if I/O communication is lost. Precautions should be taken to assure that your settings for these parameters and your application do not create a hazard of bodily injury or equipment damage.

Terms and Abbreviations

The following terms and abbreviations are specific to this product. For a complete listing of Allen-Bradley terminology, refer to the Allen-Bradley Industrial Automation Glossary, Publication AG-7.1.

Term:	Definition
SCANport™	A standard peripheral communications interface for various Allen-Bradley drives and power products.
SCANport Peripheral	A device that provides an interface between SCANport and a network. It is often referred to as an adapter. For example, the 1203-SSS converter is a SCANport peripheral.
SCANport Product	A device that uses the SCANport communications interface to communicate with one or more peripheral devices. For example, a motor drive such as a 1336 PLUS is a SCANport product.
Smart Self-powered Serial converter	In this manual, it is also referred to as the “1203-SSS converter” and “converter.”

Conventions Used in this Manual

The following conventions are used throughout this manual:

- Bulleted lists provide information, not procedural steps.
- Numbered lists provide sequential steps or hierarchical information.
- *Italic* type is used for chapter names and for parameter names.
- **Bold** type is used for names of menus, menu options, screens, and dialog boxes.

Important: This type of paragraph contains tips or notes that have been added to call attention to useful information.

Rockwell Automation Support

Rockwell Automation offers support services worldwide, with over 75 sales/support offices, over 500 authorized distributors, and over 250 authorized systems integrators located through the United States alone. In addition, Rockwell Automation representatives are in every major country in the world.

Local Product Support

Contact your local Rockwell Automation representative for:

- Sales and order support.
- Product technical training.
- Warranty support.
- Support service agreements.

Technical Product Assistance

If you need to contact Rockwell Automation for technical assistance, please review the information in the Troubleshooting chapter first. If you are still having problems, then call your local Rockwell Automation representative.

Refer to <http://www.ab.com> for updates and supporting documentation.

Overview

Chapter Objectives

Chapter 1 provides an overview of your 1203-SSS converter. In this chapter, you will read about the following:

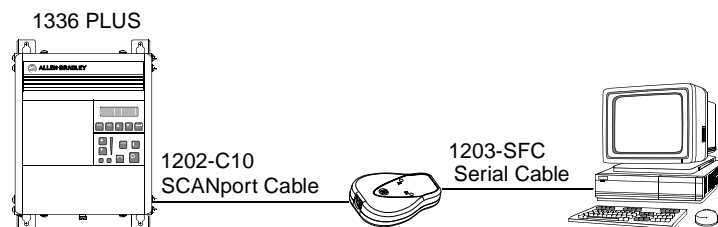
- How the 1203-SSS converter works.
- Parts of the 1203-SSS converter.
- Required equipment and tools.

Overview of the 1203-SSS Converter

The 1203-SSS converter provides a temporary electronic communications interface between a personal computer with a serial port and any single SCANport product.

The serial connection to the 1203-SSS uses a full-duplex RS-232 DF1 protocol. This protocol is used by various software packages, including DriveTools32™ and DriveExplorer™, to connect to SCANport products.

Figure 1.1
Example of a 1203-SSS Converter Connecting a PC to a SCANport Product



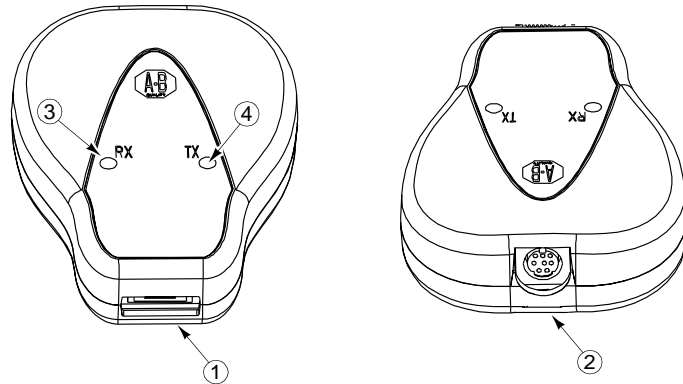
A SCANport cable connects the converter to a SCANport product through a SCANport port on the SCANport product. A serial cable connects the converter to the PC through a serial port on the PC.

The 1203-SSS converter receives its power from the connected SCANport product, so it requires no external power source.

What Hardware Is Included?

Figure 1.2 and the table below illustrate and list the main parts of the 1203-SSS converter:

Figure 1.2
Parts of the Converter



Number	Part	Description
1	RS-232 Serial Port	Provides a connector for a 1203-SFC serial cable.
2	SCANport Connection	Provides a standard SCANport 8-pin circular mini-DIN connector for the SCANport cable.
3	RX LED	Illuminates when data is sent from the host computer to the 1203-SSS.
4	TX LED	Illuminates when data is sent from the 1203-SSS to the host computer.
Not Shown	1202-C10 SCANport Cable	SCANport cable (1 m) with male-to-male connections. (Included with the converter.)
Not Shown	1203-SFC Serial Cable	Serial cable (2 m) with a locking low profile connector to connect to the converter and a 9-pin sub-miniature D female connector to connect to the personal computer. (Included with the converter.)

Overview of Setting Up the 1203-SSS Converter

To set up the 1203-SSS converter, you must perform the following tasks:

1. Install the converter. Refer to Chapter 2, *Installation*.
2. If desired, configure the converter's parameters. Refer to Chapter 3, *Configuring the 1203-SSS Converter*.

Required Tools and Equipment

To install and configure a 1203-SSS converter, you need the following equipment:

- 1203-SSS converter.
- Appropriate cables for SCANport and serial connections. Refer to Chapter 2, *Installation*, for more information.
- A PC running a Windows™ terminal emulation program (e.g., HyperTerminal) or DriveExplorer™, or a VT100-compatible terminal.

Installation

Chapter Objectives

Chapter 2 provides the information that you need to install the 1203-SSS converter. In this chapter, you will read about the following:

- Tools and equipment needed for the installation.
- Selecting cables for SCANport and serial connections.
- Installing the converter.
- Removing the converter.

Required Tools and Equipment

To install your 1203-SSS converter, you will need the following:

- 1203-SSS converter.
- Appropriate cables for SCANport and serial connections. Refer to the “Selecting Cables” section in this chapter.

Selecting Cables

To connect the 1203-SSS converter to the SCANport product and computer, you must use the appropriate SCANport and serial cables. The 1203-C10 SCANport cable and 1203-SFC serial cable that are shipped with each converter are all you should need to connect any SCANport product to a computer.

Important: If you are connecting the converter to a hand-held personal computer (HPC) or PalmPC running Windows CE™, you must purchase an additional null cable converter (1203-SNM) or any standard PC null cable with two male 9-pin sub-miniature D connectors.

Important: To provide proper termination of the 1203-SFC cable shield, the chassis of the PC should be properly grounded. If this is not possible or practical, then a ground wire should be connected to the 1203-SFC shield at the shell of the 9-pin sub-miniature D connector.

Installing Your 1203-SSS Converter

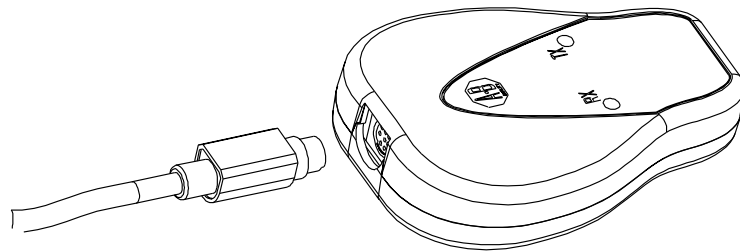
The following instructions explain how to physically install your 1203-SSS converter.

1. Connect the 1203-C10 SCANport cable to the SCANport product and the converter.

To connect the cable to the converter, align the pins on the cable with the holes in the SCANport connection and then insert the SCANport cable. The cable will click into a locked position.

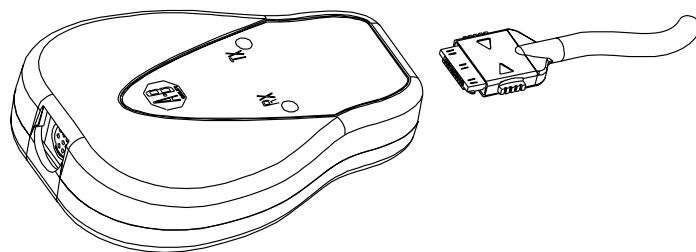
Important: Because the converter receives its power from the SCANport product, the SCANport product must be powered for the converter to work.

Figure 2.1
Connecting the SCANport Cable to the Converter



2. Connect the 1203-SSS serial cable to the converter and then to your PC's serial port. The cable will click into a locked position.

Figure 2.2
Connecting a Serial Cable to the Converter



3. While a PC is communicating with the 1203-SSS converter, verify the converter is sending and receiving data. Refer to the following table:

Important: You must be transmitting data to a drive for the LEDs to blink.

LED(s) Viewed:	If:	Cause:	Action:
Both	LEDs are off	The converter is inactive.	1. Ensure data is being transmitted. 2. Ensure that cables are properly connected to the PC, SCANport product, and converter.
	LEDs are blinking green	The converter is providing an interface between the PC and the SCANport product.	No action.
RX	LED is off	The converter is not powered.	1. Ensure data is being transmitted. 2. Ensure the SCANport cable is properly connected and the SCANport product is powered.
	LED is blinking green	Data is flowing from the PC to the converter.	No action.
TX	LED is off	There is a communications problem.	Ensure that the serial port parameters (e.g., data rate) are properly configured in the PC.
	LED is blinking green	Data is flowing from the converter to the PC.	No action.

The converter is now installed. If you wish to configure its parameters and change its default settings (e.g., baud rate), refer to Chapter 3, *Configuring the 1203-SSS Converter*.

Removing the 1203-SSS Converter

If you want to disconnect the 1203-SSS converter, you need to:



ATTENTION: Risk of severe bodily injury or equipment damage exists. If the software application using the 1203-SSS converter is providing control to the SCANport product, the SCANport product may fault when you remove the 1203-SSS converter. Make sure the application can handle this situation before removing a 1203-SSS converter that is used for control purposes.

1. Disconnect the 1203-C10 SCANport cable from the product and then from the converter.
2. Disconnect the 1203-SFC serial cable from the converter and then the PC.

Important: To disconnect the SCANport cable, gently push in the cable and then pull it out.

Notes:

Configuring the 1203-SSS Converter

Chapter Objectives

Chapter 3 provides information that you need to configure the 1203-SSS converter. In this chapter, you will read about the following:

- 1203-SSS converter's default setting.
- Equipment needed to make a serial connection to the converter.
- Connecting either a PC running terminal emulation software or a VT100-compatible terminal to the converter.
- Navigating in the converter's software.
- Editing the converter's parameters.
- Viewing and clearing the converter's event queue.

Factory-Default Settings for the 1203-SSS Converter's Parameters

The factory-default settings of the 1203-SSS converter enable the following functions:

- Node address of 1.
- Baud rate of 9600.
- If control data is being transmitted and a time-out occurs, the SCANport product will be faulted by the converter.

If you wish to change any of these functions you must connect to the converter and edit its parameters. To do so, refer to:

- Appendix B, *1203-SSS Converter Parameters*, for detailed information about each of the converter's parameters.
- Instructions in this chapter on establishing a serial connection.
- Instructions in this chapter on how to edit the parameters.

Required Tools and Equipment

To make a serial connection to the converter, you need the following:

- 1203-SFC serial cable.
- 1203-C10 SCANport cable.
- A PC running a Windows terminal emulation program (e.g., HyperTerminal) or DriveExplorer, or a VT100-compatible terminal.

Establishing a Serial Connection with the 1203-SSS Converter

The converter's software lets you edit the converter's parameters and view its event queue. To access its software, you must make a serial

connection between the converter and either a PC running terminal emulation software or a terminal. Refer to the following table:

If Using:	Refer to:
PC running terminal emulation software	page 3-2 in this manual
VT100-compatible terminal	page 3-6 in this manual
DriveExplorer Software	<i>DriveExplorer User Manual</i> , Publication 9303-5.0

Using a PC Running Terminal Emulation Software

A variety of terminal emulation programs can be used to establish a serial connection to the converter. The following instructions describe how to establish the initial serial connection to the converter using a PC running Windows 95 HyperTerminal software. Future connections to the converter can use this same configuration by clicking the icon added to the initial screen when the configuration is saved.

Important: If you are not using Windows 95 HyperTerminal, steps to establish a serial connection may vary from the following steps.

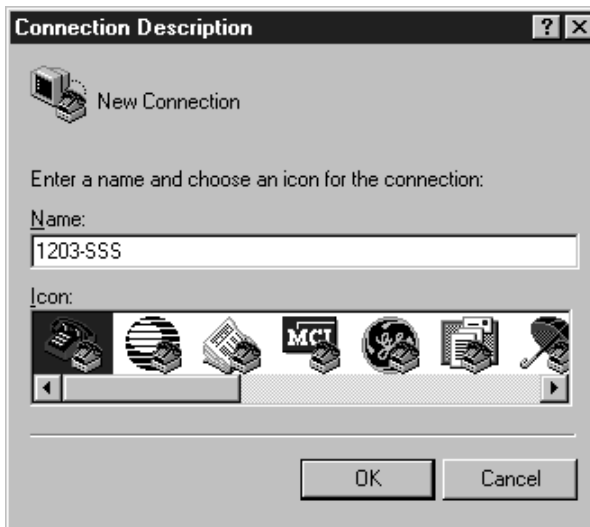
1. Install the 1203-SSS converter by connecting it to the personal computer and SCANport product. Refer to Chapter 2, *Installation*, for more information.
2. In Windows, click **Start**, select **Programs**, **Accessories**, and then **HyperTerminal**. A **HyperTerminal** dialog box appears.

Figure 3.1
Example HyperTerminal Dialog Box



3. Double-click **HyperTrm.exe**. The **Connection Description** dialog box appears.

Figure 3.2
Example Connection Dialog Box



4. Enter a name in the **Name** field and select any icon in the **Icon** field. In this example, we enter "1203-SSS" in the **Name** field.
5. Click **OK**. The **Phone Number** dialog box appears.

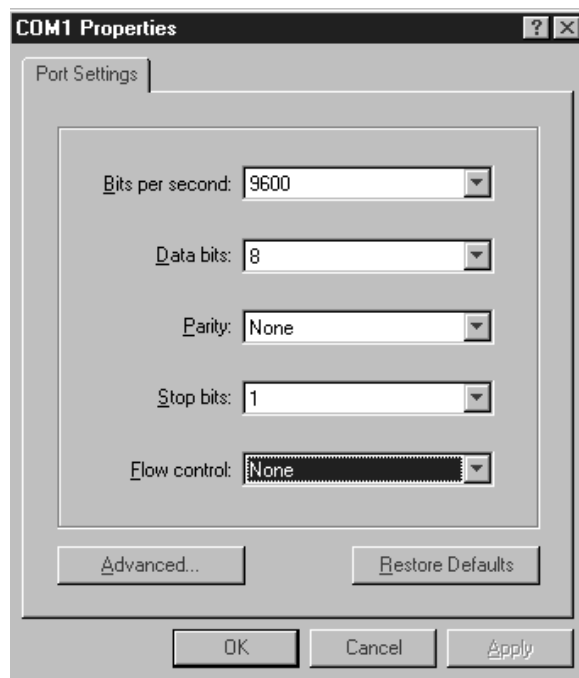
Figure 3.3
Example Phone Number Dialog Box



6. In the **Connect Using** field, select the appropriate communications port (usually COM1 or COM2).

7. Click **OK**. The **Comm Properties** dialog box appears.

Figure 3.4
Example Comm Properties Dialog Box



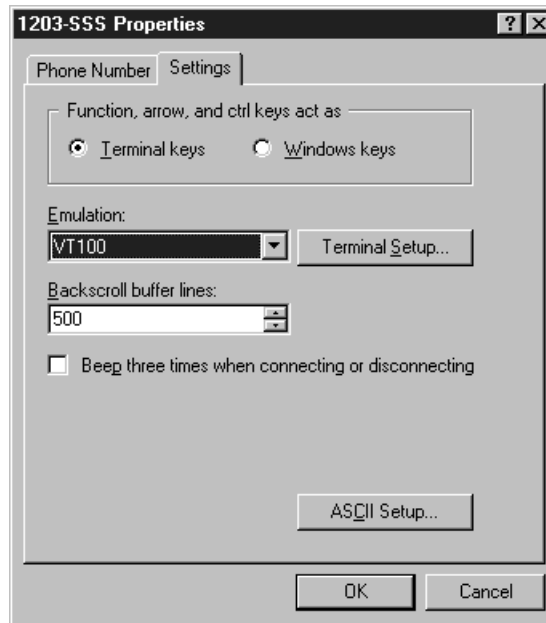
8. Select the following settings:

- **9600** in the **Bits per second** field.
If you have previously set the converter's *Serial Port Rate* (3) parameter to enable 19200 bps, set the bps to 19200 in this field.
- **8** in the **Data bits** field.
- **None** in the **Parity** field.
- **1** in the **Stop bits** field.
- **None** in the **Flow Control** field.

9. Click **OK**. A blank **HyperTerminal** screen appears.

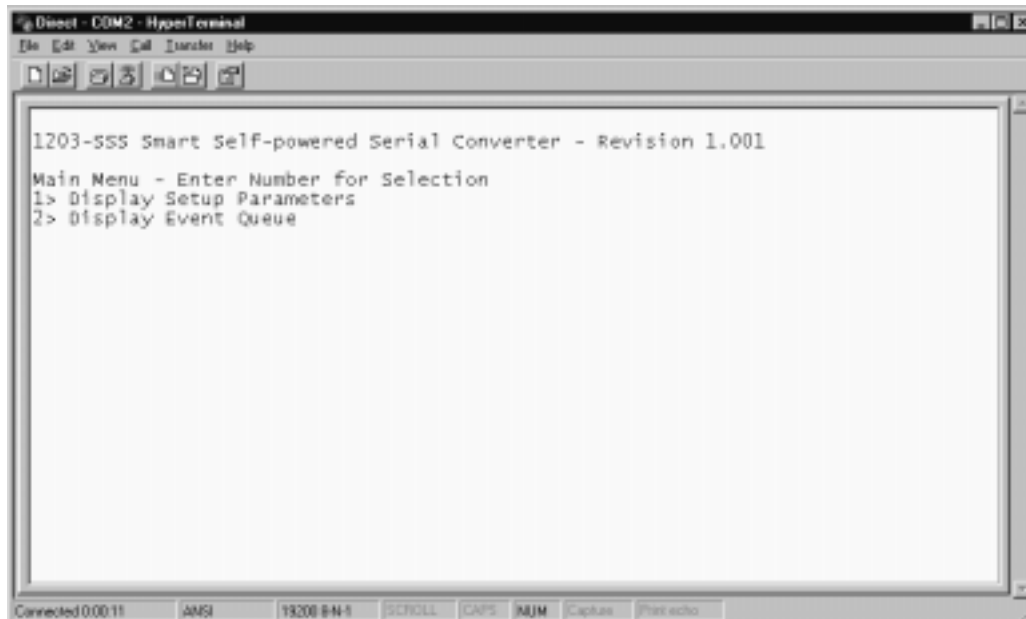
10. In the **File** menu, select **Properties**. The **Properties** dialog box appears.

Figure 3.5
Properties Dialog Box



11. Click the **Settings** tab.
 12. In the **Function, arrow, and ctrl keys act as** box, verify **Terminal keys** is selected.
 13. In the **Emulation** field, verify **VT100** is selected.
 14. Click **OK**.
 15. In the **File** menu, select **Save**. The configuration is saved and the icon you selected will appear in the initial **HyperTerminal** window next time you start HyperTerminal.
- Important:** Next time you need to make a connection to the converter, double-click the icon just created.
16. Press the **Enter** key. The main menu of the 1203-SSS Serial Self-powered Serial Converter application appears. Refer to Figure 3.6.

Figure 3.6
Main Menu



You now have access to the converter's software. Refer to the "Navigation Techniques" section on page 3-7 for more information on using it.

Using a VT100-Compatible Terminal

Important: If you are using a PC, skip this section.

The following instructions describe how to establish a serial connection to the converter using a VT100-compatible terminal.

1. Install the 1203-SSS converter by connecting it to the VT100-compatible terminal and SCANport product. Refer to Chapter 2, *Installation*, for more information.
2. Start your terminal.
3. Select the following settings:
 - **9600** in the **Bits per second** field.
If you have previously set the converter's *Serial Port Rate* (3) parameter to enable 19200 bps, set the bps to 19200.
 - **8** in the **Data bits** field.
 - **None** in the **Parity** field.
 - **1** in the **Stop bits** field.
 - **None** in the **Flow Control** field.

4. Press the **Enter** key. The main menu of the 1203-SSS Smart Self-powered Serial Converter application appears.

Figure 3.7
Main Menu

```
1203-SSS Smart Self-powered Serial Converter - Revision 1.001
Main Menu - Enter Number for Selection
1> Display Setup Parameters
2> Display Event Queue
```

You now have access to the converter's software. Refer to the "Navigation Techniques" section on page 3-7 for more information on using it.

Navigation Techniques

To perform any of the functions in the software (e.g., editing parameters), you need to know the following navigation techniques:

Press:	To
1, 2, 3, 4, 5, 6, 7, 8, 9, 0	Select an option in the Main Menu (1 – 2) or enter a value for a parameter in the Parameter screen (0 – 9).
Escape	Return to Main Menu or abort changes to a parameter.
Down Arrow	View the next parameter.
Up Arrow	View the previous parameter.
Right Arrow	View the next value for a parameter.
Left Arrow	View the previous value for a parameter.
Enter	Save a value for a parameter.

Editing Parameters in the 1203-SSS Converter

The 1203-SSS converter has some configurable parameters. Refer to Appendix B, *1203-SSS Converter Parameters*, for a detailed list. If you do not want to use the converter's default settings, edit its parameters.

To edit parameters using a serial connection, you need to:

1. Establish a serial connection to access the converter's software. Refer to the "Establishing a Serial Connection with the 1203-SSS Converter" section earlier in this chapter.
2. Press **1** to select **1> Display Setup Parameters**. The first parameter appears on the bottom of the screen.

Figure 3.8
Example Display Parameters Screen



```
Direct - COM2 - HyperTerminal
File Edit View Call Transfer Help
1203-SSS Smart Self-powered Serial Converter - Revision 1.001
Main Menu - Enter Number for Selection
1> Display Setup Parameters
2> Display Event Queue

Use UP and DOWN Cursor Keys to Display
Parameters, Left and Right Cursor Keys
to Modify Parameters. The Enter Key Saves
the new value.

1R>SCANport Adapter = 2
Connected 006:25  ANSI  19200 BN-1  SCROLL  CAPS  NUM  Capture  Post echo
```

3. If necessary, scroll through the list of parameters by pressing the **Up Arrow** or **Down Arrow** key.
4. Edit parameters as necessary using the **Left Arrow** and **Right Arrow** keys. Refer to the "Navigation Techniques" section earlier in this chapter for information on changing values. Refer to Appendix B, *1203-SSS Converter Parameters*, for valid values.
5. Reset power to the converter by setting the *Reset Adapter* (5) parameter to **Enable** and pressing **Enter**.

Displaying and Clearing the Event Queue in the 1203-SSS Converter

If an unexpected problem occurs with the converter, you may need to check the event queue to view events that have happened in the converter. Follow these instructions:

1. Establish a serial connection to access the converter's software. Refer to the "Establishing a Serial Connection with the 1203-SSS Converter" section earlier in this chapter.
2. Press **2** to select **2> Display event queue**. The event queue appears.

Figure 3.9
Example Event Queue



3. Scroll through the list of Event Queue parameters by pressing the **Up Arrow** or **Down Arrow** key.

Number	Name	Description
1	Clr Event Queue	Enable = Clears the event queue. Ready = Leaves the event queue as is.
2 - 7	Event Queue 1 - Event Queue 6	Event in the event queue. Most recent event is listed in Event Queue 1.

4. If desired, clear the event queue in the adapter by setting *Clr Event Queue* (1) to **Enable** and pressing the **Enter** key.
5. Press the **Escape** key to return to the main menu.

Notes:

Specifications

Appendix Objectives

Appendix A provides the specifications that you may need to install or use your 1203-SSS converter.

Specifications

The following table gives the specifications for the 1203-SSS converter.

Category	Specifications
Dimensions	4.08 x 2.89 x 0.93 in (103.5 x 73.4 x 23.6 mm)
Weight	2.5 oz. (0.09 g)
Operating Temperature	0 to +50°C (32 to 122°F)
Storage Temperature	-40 to +85°C (-40 to 185°F)
Relative Humidity (Operating)	5 to 95% non-condensing
Relative Humidity (Non-Operating)	5 to 95% non-condensing
Shock (Operating)	30g peak acceleration, 11(+/-1)ms pulse width
Shock (Non-Operating)	50g peak acceleration, 11(+/-1)ms pulse width
Vibration (Operating)	2.5g @5Hz-2KHz
Vibration (Non-Operating)	5g @5Hz-2KHz
Power Consumption	60mA at +12V DC
Regulatory Compliance	UL 508C and CUL

The 1203-SSS converter is a non-repairable unit.

Notes:

1203-SSS Converter Parameters

Appendix Objectives

Appendix B provides information on the 1203-SSS converter's parameters. In this appendix, you will read about the following:

- Factory-default settings for the converter.
- Parameters in the converter.

Factory-Default Settings

The factory-default settings of the 1203-SSS converter enable the following functions:

- Node address of 1.
- Baud rate of 9600.
- If control data is being transmitted and a time-out occurs, the SCANport product will be faulted by the converter.

If you wish to change any of these functions you must connect to the converter and edit its parameters. To do so, refer to:


- The “Parameters” section in this chapter for detailed information about each of the converter's parameters.
- Instructions in Chapter 3, *Configuring the 1203-SSS Converter*, on establishing a serial connection.
- Instructions in Chapter 3, *Configuring the 1203-SSS Converter*, on how to edit parameters.

Parameters

The following table provides information on the parameters for the 1203-SSS converter.

#	Name	Valid Values/ Settings	Default	Writable	Reset or Power Cycle to Take Effect	Description
1	SCANport Adapter	0 – 7	0	No	No	Identifies the port number to which the converter is connected on the SCANport product.
2	DF-1 Address	0 – 254	1	Yes	Yes	Provides the node address for the 1203-SSS converter.
3	Serial Port Rate	9600 19200	9600	Yes	Yes	Sets the baud rate for the 1203-SSS converter's serial/DF1 port. Important: If you change the baud rate in the converter, you must also change it in your terminal emulation software or terminal.

Important: For information on editing parameters, refer to Chapter 3, *Configuring the 1203-SSS Converter*.

#	Name	Valid Values/ Settings	Default	Writable	Reset or Power Cycle to Take Effect	Description
4	<i>Comm Flt Action</i>	Fault Zero Data Hold Last	Fault	Yes	No	Determines the action the converter should instruct the SCANport product to take if the converter detects a communication problem. This parameter is active only if control I/O is enabled. Important: If you change the value of this parameter, the user application may not be able to control the product after a fault.
						ATTENTION: Risk of severe bodily injury or equipment damage exists. The <i>Comm Flt Action</i> (4) parameter allows the user to change the default configuration that would allow the converter and associated drive to continue to operate if communication is lost. Precautions should be taken to assure that your settings for these parameters and your application do not create a hazard of bodily injury or equipment damage.
5	<i>Reset Adapter</i>	Ready Enable Set Defaults	Ready	Yes	No	Enable = Resets the converter. Set Defaults = Sets all parameters to their default values.
6	<i>Clear DF1 Counts</i>	Ready Enable	Ready	Yes	No	Ready = No action. Enable = Clears all DF-1 statistical parameters.
7	<i>DF1 Packets Sent</i>	0 – 65535	0	No	No	Reports the number of DF-1 packets sent by the converter.
8	<i>DF1 Packets Rcvd</i>	0 – 65535	0	No	No	Reports the number of DF-1 packets received by the converter.
9	<i>Undelivered Msgs</i>	0 – 65535	0	No	No	Reports the total number of DF-1 messages that were sent but never acknowledged.
10	<i>ENQs Sent</i>	0 – 65535	0	No	No	Reports the number of ENQ characters sent by the converter.
11	<i>ENQ Received</i>	0 – 65535	0	No	No	Reports the number of ENQ characters received by the converter.
12	<i>NAKs Received</i>	0 – 65535	0	No	No	Reports the number of NAK characters received by the converter.
13	<i>NAK Bad Packet</i>	0 – 65535	0	No	No	Reports the number of NAKs sent by the converter because of corrupt packets (improper protocol messages) as determined by the converter.
14	<i>NAK No Memory</i>	0 – 65535	0	No	No	Reports the number of NAKs sent by the converter because the converter ran out of memory to buffer the incoming messages. The converter will run out of memory when the previous command has not completed and there is no place to save the new commands.
15	<i>Duplicate Msgs</i>	0 – 65535	0	No	No	Reports the number of duplicate messages sent by the converter. This value contains the total number of consecutive messages received by this device with the same TNS number.

Important: For information on editing parameters, refer to Chapter 3, *Configuring the 1203-SSS Converter*.

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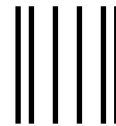
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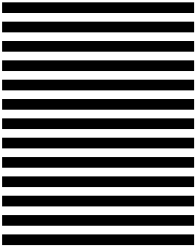
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