

SIEMENS

SIMATIC

WinAC Basis CP 5611 DP Driver V1.6

User Manual

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Safety Guidelines

This manual contains notices which you should observe to ensure your own personal safety, as well as to protect the product and connected equipment. These notices are highlighted in the manual by a warning triangle and are marked as follows according to the level of danger:



Danger

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.



Warning

indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.



Caution

used with the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

Caution

used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

Notice

used without the safety alert symbol indicates a potential situation which, if not avoided, may result in an undesirable result or state.

Qualified Personnel

The device/system may only be set up and operated in conjunction with this manual. Only qualified personnel should be allowed to install and work on this equipment. Qualified persons are defined as persons who are authorized to commission, to ground, and to tag circuits, equipment, and systems in accordance with established safety practices and standards.

Correct Usage

Note the following:



Warning

This device and its components may only be used for the applications described in the catalog or the technical descriptions, and only in connection with devices or components from other manufacturers which have been approved or recommended by Siemens.

This product can only function correctly and safely if it is transported, stored, set up, and installed correctly, and operated and maintained as recommended.

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We have checked the contents of this manual for agreement with the hardware and software described. Since deviations cannot be precluded entirely, we cannot guarantee full agreement. However, the data in this manual are reviewed regularly and any necessary corrections included in subsequent editions. Suggestions for improvement are welcomed.

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Technical data subject to change.

Preface

The WinAC Basis CP 5611 DP Driver V1.6 provides the DP driver that allows the Windows Logic Controller (WinLC) to use a communications processor CP 5611 card for communicating over PROFIBUS-DP networks. The DP 5611 driver also allows WinLC to use the integrated PROFIBUS interface of a SIMATIC Industrial PC (such as the SIMATIC Box PC 820).

The SIMATIC NET CP 5611 card provides a low-cost interface to the PROFIBUS-DP network.

Audience

This manual is intended for engineers, programmers, and maintenance personnel who have a general knowledge of programmable logic controllers.

Scope of the Manual

This manual describes the installation and configuration of the version 1.6 of the DP 5611 driver.

Note: This manual describes the installation of the DP 5611 driver for WinLC Basis V3.x and V4 in chapter 1.2. Chapters 1.3 to 1.5 explain the configuration for use with WinLC V3.x only. For information about using the DP driver with WinLC Basis V4, refer to the online help or the user manual for WinAC Basis V4.

Other Manuals


For more information, refer to the following manuals:

Title	Content
<i>SIMATIC NET Installation Instructions for CP 5611</i>	This manual describes the technical specifications and installation instructions for the CP 5611 card.
<i>Windows Logic Controller (WinLC) User Manual</i>	This manual describes the installation and operation of the WinLC "software PLC." The WinLC application includes online help.
<i>SIMATIC NET PROFIBUS User Manual</i>	This manual provides information about PROFIBUS-DP communications and setting up PROFIBUS networks.

Additional Assistance

If you have any questions not answered in this or one of the other SIMATIC manuals, if you need information on ordering additional documentation or equipment, or if you need information on training, please contact your Siemens distributor or sales office.

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Contents

- Prefaceiii**
- Contents.....v**
- Installing and Configuring the DP 5611 Driver1**
 - 1.1 Product Overview 2
 - 1.2 Installing or Uninstalling the DP 5611 Software..... 4
 - 1.3 Setting Up the CP 5611 to Access PROFIBUS I/O 5
 - 1.4 Determining the Version of the CP 5611 Card 8
 - 1.5 Configuring a Remote Connection to WinLC..... 10
- Response Form12**

Installing and Configuring the DP 5611 Driver

The WinAC Basis CP 5611 DP Driver provides the PROFIBUS driver for the CP 5611 card. This driver allows you to use a CP 5611 card with WinLC in order to communicate over a PROFIBUS-DP network.

Note: This manual describes the installation of the DP 5611 driver for WinLC Basis V3.x and V4 in chapter 1.2. Chapters 1.3 to 1.5 explain the configuration for use with WinLC V3.x only. For information about using the DP driver with WinLC Basis V4, refer to the online help or the user manual for WinAC Basis V4.

This driver also allows WinLC to use the integrated PROFIBUS interface of a SIMATIC Industrial PC (such as the SIMATIC Box PC 820).

The following sections help you install and configure the DP 5611 software. For information about the technical specifications and the installation procedures for the CP 5611 card, refer to the documentation that ships with the CP card.

Section	Description	Page
1.1	Product Overview	2
1.2	Installing the DP 5611 Software	4
1.3	Setting Up the CP 5611 to Access PROFIBUS I/O	5
1.4	Determining the Version of the CP 5611 Card	8
1.5	Configuring a Remote Connection to WinLC	10

1.1 Product Overview

The SIMATIC NET communications processor CP 5611 provides an PC-based interface to a PROFIBUS DP network. The CP 5611 differs from other CP cards for PROFIBUS DP networks (such as the CP 5412 and CP 5613 cards) in that the DP 5611 software provides the protocol software for the CP 5611. (The protocol software for the CP 5412 and CP 5613 cards runs as firmware on the card.) This allows the CP 5611 to provide a lower-cost solution to your networking needs.

Note: This manual describes the installation of the DP 5611 driver for WinLC Basis V3.x and V4 in chapter 1.2. Chapters 1.3 to 1.5 explain the configuration for use with WinLC V3.x only. For information about using the DP driver with WinLC Basis V4, refer to the online help or the user manual for WinAC Basis V4.

The Setup program for the DP 5611 software installs the DP driver for the CP 5611 card. You can then configure the communications parameters for the CP 5611 card and the WinLC controller.

Using WinLC with the Integrated PROFIBUS Interface of a SIMATIC Industrial PC

The DP 5611 driver also allows WinLC to use the integrated PROFIBUS interface of a SIMATIC Industrial PC (such as the SIMATIC Box PC 820). The integrated interface is compatible to the CP 5611.

Configuring WinLC for the integrated PROFIBUS interface is the same as configuring the CP 5611. Refer to the following sections for the configuration procedures and settings:

- Section 1.3 explains how to configure the interface to access PROFIBUS I/O.
- Section 1.5 explains how to configure a remote connection to WinLC.

Note: For SIMATIC Industrial PCs, such as the SIMATIC Box PC 820:

Use the integrated PROFIBUS interface of the Industrial PC for communications between WinLC and the I/O. You cannot use a second CP 5611 card.

To use the integrated Interface for MPI communication, use a CP 5613 or CP 5412 with WinLC for communicating with the I/O.

Overview of the Installation Procedure

To use the CP 5611 card with WinLC, you must perform the following tasks:

1. Install the CP 5611 card in your computer. For more information about installing the CP card, refer to the documentation that ships with the card.
2. Use the Setup program to install the DP 5611 software. See Section 1.2.
3. Configure the communications parameters for the CP 5611 card. See Section 1.3.
4. Check the version of the PROFIBUS ASIC on your CP 5611 card. (The DP 5611 driver supports only version STEP C and later.) See Section 1.4.

After you have configured the CP 5611 card, you can select the access point for WinLC, as described in Section 1.5.

Note: The default settings of the CP 5611 card should be correct for use in your computer. If the addressing of the CP 5611 card conflicts with another card in your computer, you can change the setting for the CP card. Refer to the documentation that ships with the CP 5611 card.

System Requirements

Your computer (PC) must meet the following criteria:

- A single Pentium II processor running at 266 MHz or faster (The DP 5611 software does not run properly on multiprocessor computers.)
- One of the following operating systems:
 - Microsoft Windows NT version 4.0 (or higher), with service pack 5 (or higher) required
 - Microsoft Windows 2000
 - Microsoft Windows XP Professional, with service pack 1 (or higher) required
- RAM:
 - For Windows 2000 / Windows NT: 64 Mbytes RAM (recommended)
 - For Windows XP: 128 Mbytes RAM (recommended)
- A hard drive with 3 Mbytes of free space, with at least 1 Mbyte free memory capacity on drive C for the Setup program (Setup files are deleted when the installation is complete.)
- CP 5611 card (or an integrated PROFIBUS interface, as provided by SIMATIC Industrial PCs)

1.2 Installing or Uninstalling the DP 5611 Software

Installing (Adding) the DP 5611 Software

The Setup program for the DP 5611 software guides you step-by-step through the installation procedure.

Use the following procedure to start the installation program:

1. Double-click on the Add/Remove Programs icon in the Windows Control Panel to display the Add/Remove Programs dialog box.
2. Click Install.
3. Insert the CD-ROM and click Next. Windows searches automatically for the installation program (SETUP.EXE).
4. Follow the instructions displayed by the installation program.

Troubleshooting Any Errors That Occur during Installation

The following errors may cause the installation to fail:

- Initialization error immediately after starting Setup: The SETUP.EXE program was probably not started under Windows.
- Bad disk: Verify that the disk is bad, then call your local Siemens representative.

Uninstalling (Removing) the DP 5611 Software

Use the Windows “Add/Remove Programs” procedure to remove the DP 5611 software:

1. Select the **Start > Settings > Control Panel** menu command to display the Windows control panel.
2. Double-click on the Add/Remove Programs icon to display the Add/Remove Programs Properties dialog box.
3. Select the entry for “SIMATIC WinLC CP5611 DP Driver” and click on the Add/Remove button.
4. Follow the instructions of the dialogs to remove the DP 5611 software. (If the Remove Enable File dialog box appears, click No if you are unsure how to respond.)

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