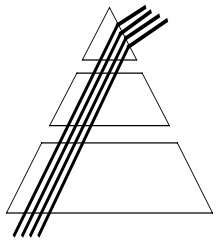
SIEMENS



COROS LS-B
Product Information CP 581/LS-B
for CP 581 Pentium

This Product Information overrides the Product Notes, the current Supplement to the Manual which again overrides the current statements made in the Manual.

Please note
before the software installation!

with controlled ventilation

- set processor clock frequency **at 75 Mhz (default)**
  - switch S11-1 to position ON
  - switch S11-2 to position ON
  - switch S11-3 to position OFF
  - switch S11-4 to position OFF

without controlled ventilation

- set processor clock frequency **at 133 Mhz**
  - switch S11-1 to position OFF
  - switch S11-2 to position ON
  - switch S11-3 to position ON
  - switch S11-4 to position OFF

cf. Manual CP581/Description of the Switch Positions: Order no.: 6ES5 998-2AT12

EU-Directive EMC 89/336/CEE

CE

The following applies for COROS products with CP581 units:

Products that are labelled with the CE identification, comply with the requirements of the EU 89/336/CEE "Electro-magnetic Conformity" and the harmonized European standards stipulated therein.

The EU comformity declarations shall be made available to the respective authorities according to article 10 of the above EU directive, by:

Siemens Aktiengesellschaft
Automation & Drives
A&D PT
Gleiwitzer Straße 555
D-90475 Nürnberg
Germany

Field of application

According to the CE identification, the following fields of application apply for CP581/LS-B:

Field of application	Requirements to	
	Interference emission	Interference immunity
Industry	EN 50081-2: 1993	EN 50082-2: 1995

Observe installation instructions

The CP 581/LS-B device complies with these requirements, provided that the instructions on installation and application described in the SIMATIC S5 manuals are observed.

Installing the units

cf. CP581 Manual (Order no.: 6ES5 998-2AT12)

Work on control cabinets

In order to protect the units from electrostatic discharge, the operating staff must discharge itself before opening the control cabinets.

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1 Contents of the Consignment

Scope of supply

memoryboard	1 *	6ES5 581-5LA11
CPU-board pentium incl MSDOS 6.22	1 *	6ES5 581-0EE15
Memoryextension 2* 16 MB	2 *	6ES7478-1AP00-0AA0
COROS-Decoder for complete or runtime version		
CP 581 Licenspaket		
Software (COROS LS-B)		

The CP 581/LS-B Back-up Diskettes consist of:

3 diskettes Microsoft MS-DOS 6.22	(german)
9 diskettes Microsoft Windows for Workgroups 3.11	(german, english)
13 diskettes Microsoft WIN95 Update only for CP 581/LS-B mit WIN95	(german, english
1 Microsoft Windows95 CD for licensing	
1 diskette graphics driver **Win95**	
1 diskette graphics driver Wfw3.11	

24 diskettes COROS LS-B/WIN (3 languages)
inclusive:

- network software TF NET MSDOS, Windows
  for SINEC H1
  for SINEC L2
- CCX-Lib serial link by the company © Fa. ASP GmbH(1994) for RK512 protocol
- Prodave for AS511
- driver for backplane bus CP581/LS-B

Microsoft Windows for Workgroups & MS-DOS 6.22 User's Guide	(German or English)
Appendix to the Manual CP 581 CP581 with COROS LS-B	Section 7 and 8 (German or English)

Agreement concerning the use of software products acquired against one-off payment with the Software Product Certificate.

The hardware components to be delivered and the operation instructions can be found in the Manual CP 581 that must be ordered separately.

For licensing reasons the CP 581/LS-B Back-up Diskettes ans the Microsoft Windows95-CD may only be installed on the above-mentioned CP 581/LS-B programming device.

The software may not function correctly and may damage the connected monitor if you install it on other programming devices or PCs.

2 Addendum to the Software Product Certificate

The Software Product Certificate is part of the Agreement concerning the use of software products acquired against one-off payment which is included in the consignment. It lists, among other things, the licensed software components and their guarantee class.

The customer is not authorized to make modifications to the software during the period of the contract.

In any correspondence, quote the identification number on the Software Product Certificate.

3 Installing the Software

Introduction:

The CP 581/LS-B Back-up Diskettes are intended for the first installation or to recreate the functional scope of the software on the programming device if the software installed on the hard disk of the CP 581/LS-B device is damaged or lost. It is for use with the operating systems MS-DOS and Windows for Workgroups in only one language (German or English).

Recreating the functional scope of the software is divided into four installation steps.

- MS-DOS 6.22-Installation
- Windows for Workgroups 3.11 - Installation
  - for WIN 95 devices: installation of Microsoft Windows 95
- Installation and setting the graphics driver from diskette
- COROS LS-B/WIN

If you want to install the whole of the software again, you should perform the steps in the given order mentioned above.

If you only want to replace one damaged part of the software, perform only the relevant one of the four steps to restore the respective part.

Procedure:

The installation of the software on the CP 581/LS-B Back-up Diskettes is menu-driven. The software is installed on drive C:. It is stored on the diskettes in compressed form. When you install the software, the files are decompressed and stored on the hard disk.

A description of how to perform a complete software installation follows. If you only want to install one part, follow the instructions for the individual step.

3.1 MS-DOS 6.22

You will find a description of this installation in the

User Guide Microsoft MS-DOS

If a new hard disk has been installed in your programming device or PC, you should partition the disk first using the program FDISK and then format drive C: with „FORMAT /S“ und drive D:/E: with „FORMAT“. You will find a description of these programs in the User's Guide, Volume I by looking them up in the Index.

Partition details:

CP 581/LS-B:	Current hard disk:			
	Partition:1	C: PRI DOS	e.g.	C:\max. 2GByte
	Partition:2	EXT DOS		rest!
		Logical DOS drive		D:\E:max. 2GByte

To install MS-DOS 6.2, insert Disk 1 - Setup of Microsoft MS-DOS 6.2 in drive A: and switch on your CP 581/LS-B programming device or restart it with the key combination CTRL + ALT + DEL.

The SETUP menu for the installation of MS-Dos 6.2 appears on the screen. If you have to set up your hard disk first, interrupt this program by pressing the function key F3 twice.

Then use the programs FDISK and FORMAT to partition and format the hard disk drive. When these programs are finished, start the installation program for MS-DOS again.

If you do not need to set up your hard disk first, you can continue working through the SETUP program. You will then be prompted in turn for Disk 2 and Disk 3 of MS-DOS 6.

The end of the installation of MS-DOS 6.2 is indicated on the screen.

The installation step ”MS-DOS 6.2-Installation” is then finished.

Before you continue with the installation of the next software component, remove the diskette from drive A: and restart your CP 581/LS-B programming device with the <RETURN> key.

3.2 Windows for Workgroups 3.11

You will find a description of this installation in the

User Guide Microsoft Windows for Workgroups

To install Windows for Workgroups 3.11, insert Disk 1 - SETUP of Microsoft Windows for Workgroups 3.11 in drive A: and start the program SETUP by typing

A: SETUP <RETURN>.

This program is menu-driven. We recommend to select the EXPRESS-SETUP.

You are then prompted in turn for the diskettes in this software package.

You are also prompted for the type of printer connected and the printer port used. This can also be done later.

The end of the installation of Windows for Workgroups 3.11 is indicated on the screen.

3.3 Windows 95

For the devices running under Windows 95 it is necessary to install the disks Windows 95 Update after the installation of WfW 3.11. No licence number must be entered during this installation.
The delivered Microsoft Windows95 - CD is used for the proof that a WIN95 license was carried off for Microsoft.
One may only insert this Win95-CD on the acquired hardware CP 581/LS-B.

3.4 Installing the Graphics Driver

Windows 95

- the installation procedure will recognize automatically the on-board graphics controller and load the standard PCI graphics adapter (VGA) driver. After the installation this setting should be change the following way:

- In the file manager, double-click on the file "W95500.exe" located on the supplied graphics driver disk. The graphics driver "Chips & Technologies 69000 PCI" self-installs after acknowledging the license agreement.

- Via "Control Panel - Display - Settings", set the desired resolution and color depth (256 colors are recommended).

Windows for Workgroups (no Guarantee)

Installation: (256 colors recommended)

1. Create a directory named C:\Graphic.
   Copy the file "W31132.exe" from the floppy disk to C:\Graphic.

2. Run the file "W31132.EXE" (confirm unzipping with "Y").

3. Run the file "SW.EXE -d" (confirm unzipping with "Y").

4. Run the file "C:\Graphic\SETUP.BAT ".
   Enter "h" for German, "a" for English, correspondingly other languages.

5. Follow the instructions of the Setup program.
   Select the displayed driver with the "ENTER" key.
   Select "All Resolutions" with the "ENTER" key.
   Execute with the "END" key.
   If asked for the installation path, specify your Windows folder, e.g. C:\WINDOWS or C:\WFW. and „RETURN“.
   Exit Setup with the "ESCAPE" key.

6. Start Windows.

7. Go to the Windows "Settings" -> "Control Panel" -> "Display".

8. Change the display settings for * CHIPS Multi Media 6555X ... to one of the following resolutions:
   * CHIPS Multi Media 6555X 1024 x 768 x 256
   * CHIPS Multi Media 6555X 800 x 600 x 256
   * CHIPS Multi Media 6555X 640 x 480 x 256
   * CHIPS Multi Media 6555X 640 x 480 x 32k

   Please do not select any other resolution, otherwise Windows cannot be started anymore.
   Any files required are located at C:\Graphic\Windows\System.

9. Exit the Control Panel and restart Windows.

10. The Control Panel will now include the tool "ChipsCPL", which allows you to set the screen refresh rate. You should also deactivate the cursor animation.
    Only change the screen refresh rate, monitor type and cursor Animation in here, NOT the resolution/color depth.

3.5 COROS LS-B/WIN

The installation comprises COROS LS-B/WIN as well as the required system settings. The whole software package is loaded on C:\LSBWIN as a standard feature. With the installation, the target drive and the directory can be selected without restrictions.
The installation is carried out in the selected language. Texts created from the compiler are only in the German language. The same applies to messages from the TF NET installation.

OK	= OK,
Abbruch	= Abort, Annuler
Ja	= yes, oui,
Nein	= no, non

Attention (only for devices with an additional link module in the AT slot.)
The installation of the TFNET software on a device with existing LAN-installation should only be carried out with thorough background knowledge. The installation can cause the loss of existing parameter settings.

Procedure

- Boot from the hard disk (C:)
- Start WINDOWS
- Start SETUP of Disk 1 in drive A: with the File Manager (double click) or with the Program Manager via the ”File” menu ”Run” function.
- The installation is program-controlled.
- LSBSET is called after the installation is finished.
- Entries in autoexec.bat and config.sys are only carried out, if a respective box has been acknowledged. Altered files are stored as backup file with the .LSB extension.
- After the completion of SETUP, the CP 581/LS-B must be reset with **<reboot>** in the window.

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4 Notes on Operation

Before the start-up of COROS LS-B the delivered COROS decoder has to be plugged on LPT.

The Product Information and the Product Notes on the respective COROS LS-B hardware and software products provide further information.

4.1 Functional Extensions

Link via Backplane bus

For function description, please refer to ”Appendix to Manual CP 581 with COROS LS-B ” Chapter 8: Interface to the PLC
In the COMED editor, choose the setting ”S5 Bus link to VP”.
The link for the variable picture (VC3) is designed in way that allows a maximum of 2 jobs per 500 ms (10 jobs per second) to be processed.

Link with PMC

The link to COM-OS/PMC has been released.

4.2 Restrictions

RESET

The CP581 may only be reset with the RESET button, if the RUN/STOP switch is in STOP position.
Adverse effects on the S5-CPU, caused by incorrectly aborted message frames, can otherwise not be excluded.

Start-up

If, in CP 581 devices, the RUN-STOP switch in the BIOS start-up is set to STOP, the CP-LINK program is started. By pressing the RETURN button, you can ignore the issued error message.

4.3 Notes on PLC programming

Variable picture link (SEND-DIRECT for VC3):

For variable picture links, one or several data blocks have to be transmitted from the PLC via SEND-DIRECT at regular intervals. In order to prevent an excessive load to be put on the process link, only two buffers per 500 ms are provided for jobs. Only up to 10 jobs per second may thus be processed.
This number also depends on the job execution time and on the load created by Windows.

If more jobs are sent, the message ” job is being processed” is displayed in the condition codeword (CC) of the handling block. In this case, you should repeat the job. A waiting period between the individual SEND jobs may be provided.

The message ”no buffer available” may briefly be displayed on the screen, during process control start-up with a CP581/LS-B device.

No specific measures have tobe taken for the transmission of two blocks. The transmission con be repeated in cycles of at least 500 ms. For variables with aquisition- or updating cycles of 1s, a repetition cycle of 500 ms is sufficient.

Example of an PLC program required for controlling SEND-DIRECT calls via the Te02 timer (example applies for S5 115U).

```
        AN    F  63.1      Job is not processed
        AN    F  60.5      Timer not started
        L     KT050.0      500 ms timeout
        SD    T 204        start timer

        A     T 204
        S     F 60.5       SEND permitted

        A     F 60.0       SEND release
        AN    F 63.1       Job is not processed
        A     F 60.5       SEND permitted
        JU    FB244
NAME:   SEND
        .
CC:     FW 62
        .

        JU    FB247
NAME:   CONTROL
        .
        .


        A     F 63.1       Job is processed
        R     F 60.5       SEND no longer permitted
```

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