

1 Properties of the PC Adapter USB

The PC Adapter USB is compatible with USB V1.1 and satisfies the requirements for "Low-Powered" USB devices. The SIMATIC PC Adapter USB supports the energy saving mode (hibernate mode).

1.1 Function

The SIMATIC PC Adapter USB connects a PC to the MPI/DP interface of an S7/M7/C7 system via USB.

A slot is not required in the PC, which means that the adapter can also be used for non-expandable PCs such as notebooks.

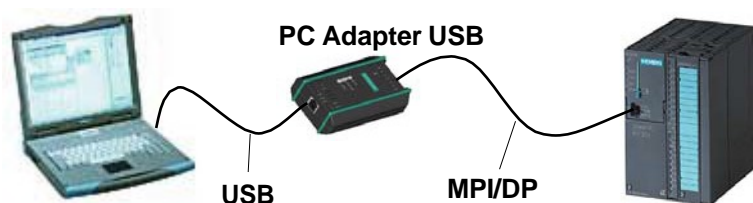


Fig. 1-1: Configuration with PC Adapter USB

Note

Only one PC Adapter USB can be used on a PC.

1.2 Performance specifications

The PC Adapter USB can be used on MPI and PROFIBUS networks. Starting at firmware V1.1, the PC Adapter USB can also be operated on homogeneous PPI networks.

The following table shows the transmission rates and network types supported by the PC Adapter USB.

Tabelle 1 : Busprofile und Übertragungsgeschwindigkeiten

Transmission rate	MPI	PPI	PROFIBUS			
			DP	Standard	Universal	User-defined
9.6 kbps	-	/	/	/	/	/
19.2 kbps	/	/	/	/	/	/
45.45 kbps	-	-	/	/	-	/
93.75 kbps	-	-	/	/	/	/
187.5 kbps	/	/	/	/	/	/
500 kbps	-	-	/	/	/	/
1.5 Mbps	/	-	/	/	/	/

Other performance features

- Automatic bus profile detection
- Up to 16 communication connections, of those up to 4 slaves (DP/T connections)
- Routing support
- As of firmware V1.3, the PC Adapter USB DPV1 Standard slaves is supported through
 - Slave address assignment
 - Device diagnosis
 - Read/write data record

2 Package Components

The SIMATIC PC Adapter USB package includes:

- One "SIMATIC Software PC Adapter USB" CD containing the software and documentation
- One USB cable (5 m)
- One MPI cable (0.3 m)

The MPI cable can be used to connect the PC Adapter USB to MPI, homogeneous PPI or PROFIBUS (DP) networks.

Spare parts

Spare parts	Order number
USB cable (5 m)	A5E00276884
MPI cable (0.3 m)	A5E00164946

You can forward your spare parts orders to your local Siemens partner.

Supplies (not included in the PC Adapter USB)

To operate the PC Adapter USB to MPI/DP interfaces which do not have a 24V supply voltage, you can order an external power supply (order number: 6ES7 972-0CA00-0XA0).

twarequirements

One of the following operating systems must be installed on the PC in order to be able to operate the SIMATIC PC Adapter USB:

- Windows 2000
- Windows XP Professional
- Windows XP Home
- Windows Server 2003 Standard Edition
- Windows

Vista and

- a SIMATIC software package that communicates via MPI (for example, STEP 7)

To operate the PC Adapter USB on a PPI network, you also need the STEP 7-Micro/Win32 SW package.

3.2 Hardware requirements

You require a PC with a USB interface and a CD ROM drive.

4.1 Connections or displays on the PC Adapter USB:

