

Handling-Shortinstruction for Interface-Cable for S7 V1.6

MPI/PPI-Kabel 9350 for Simatic S7-200 up to S7-400

Please connect the cable to the serial port (Com-Port) of your pc and to the MPI- or PPI-Port of your plc.

After, the cable has been started, you can see in the display of the cable how much devices and their address are connected to the bus. In your S7-programming software you should configure following:

Siemens S7-300/400: [STEP7]

Under *options* → *Set PG/PC Interface...* please select the driver "PC-Adapter [MPI]" and configure it like the properties of the mpi-bus. If your software don't have this driver, you should have to install it now. You don't need the software CD, the driver is included in your Siemens software. You should press the button "Add/remove" in this menu.

You can also install the driver called "MPI-Speed" (see link to the homepage) to your system. This driver allows to communicate serial up to 115K2 Baud. The original driver "PC-Adapter [MPI]" only provides baudrates up to 38K4 Baud.

Siemens S7-200: [MicroWin]

Under *Set PG/PC Interface...* please select the driver PC/PPI-cable. The configured PPI-baudrate of 9K6 or 19K2 will be recognised of the connected MPI/PPI-Kabel. Please note, that the cable will make this only after starting up. If you have a change of the baudrate, please restart the cable!

This cable is not able to drive with a MultiMaster – network.

PG-95/2000:

Under *option* → *interface* you select the com-port and the baudrate up to 115K2 Baud.

S7 for Windows:

Under *file* → *properties* → *interface* select the protocol for "MPI Converter (Simatic S7)" and configure the correct com-port and the baudrate up to 115K2.

MPI-II-Kabel 9352 for Simatic S7-200 up to S7-400

Please connect the cable to the serial port (Com-Port) of your pc and to the MPI- or PPI-Port of your plc.

After, the cable has been started, you can see in the display of the cable how much devices and their address are connected to the bus. In your S7-programming software you should configure following:

Siemens S7-300/400: [STEP7]

Under *options* → *Set PG/PC Interface...* please select the driver "PC-Adapter [MPI]" and configure it like the properties of the mpi-bus. If your software don't have this driver, you should have to install it now. You don't need the software CD, the driver is included in your Siemens software. You should press the button "Add/remove" in this menu.

For the connection to the profibus, please use the driver "PC-Adapter [Profibus]".

Siemens S7-200: [MicroWin]

Under *Set PG/PC Interface...* please select the driver PC/PPI-cable. The configured PPI-baudrate of 9K6 or 19K2 should be configured in the cable. Please go to the menu item *config* → *mode* and select it.

This cable is only able to drive with a MultiMaster – network with serial communication!

PG-95/2000:

Under *option* → *interface* you select the com-port and the baudrate up to 115K2 Baud.

S7 for Windows:

Under *file* → *properties* → *interface* select the protocol for "MPI Converter (Simatic S7)" and configure the correct com-port and the baudrate up to 115K2.

The MPI-II-Kabel can be connected also with USB to the pc. For this, you should use a cable for USB plug ↔ plug and type A ↔ A. If your pc want to start the installation manager, please stop it and close it. Please install the software PLCVCom (see link to the homepage or attached CD) on this pc. Make all, the software tells you. After restart the pc, this software will be active and your pc get a new com-port, you have defined in its installation.

Please configure this com-port in the properties of your application and your programming software will be work with the MPI-II-Kabel over USB.

You don't have to configure the MPI-II-Kabel for this communication, because, after rebooting the cable recognises the first communication (serial or USB) and uses this port.

MPI-USB 9352-USB for Simatic S7-200 up to S7-400

The cable will be plugged in the USB-port of your pc and the MPI- or PPI- or Profibus-port of your plc.

After, the cable has been started, you can see in the display of the cable how much devices and their address are connected to the bus.

If your pc want to start the installation manager, please stop it and close it. Please install the software PLCVCom (see link to the homepage or attached CD) on this pc. Please look at the note installation PLCVCom.

Please configure this com-port in the properties of your application (like as the MPI-II-Kabel) and your programming software will be work with the MPI-II-Kabel over USB.

MPI-LAN 9352-LAN for Simatic S7-200 up to S7-400

The cable will be plugged to the network port of your pc and the MPI- or PPI- or Profibus-port of your plc.

Or, you can connect the MPI-LAN with a Crossover-adaptor to the wall network port or to a hub/switch with an automatic recognising of the correct pinning. This module use a integrated keyboard, but the comfortable way is using the integrated webserver. For this action, you connect the PC and this module via network and write down in the browser the ip-address of this module <http://192.168.1.56> (default address). Now, you are possible to change the configuration and the ip-address, also.

After this, please install the software PLCVCom (see link to the homepage or attached CD) on your PC. Please look at the note "installation PLCVCom".

Now, after all, you can work with this com-port on the same way like the MPI-II-Cable.

S7-LAN 9352-LANCon for Simatic S7-200 up to S7-400

The module will be connected direct to the mpi/profibus-port of the S7-plc. The connection of the RJ-45-port will be the same connecting a PC to the network. This module don't use a integrated keyboard so the configuration will be done with the integrated webserver. For this action, you connect the PC and this module via network and write down in the browser the ip-address of this module <http://192.168.1.56> (default address). Now, you are possible to change the configuration and the ip-address, also.

After this, please install the software PLCVCom (see link to the homepage or attached CD) on your PC. Please look at the note "installation PLCVCom".

Now, after all, you can work with this com-port on the same way like the MPI-II-Cable.

MPI-Modem

The TS-possibility allows the connection of a modem, to make a connection with a 2nd Modem and a PC to a S7-300/400. The MPI-Modem must be connected to an analogue telephone line and the PLC.

To work with the MPI-Modem in his TS-function, you must make the following actions: you need the TeleService-software from Siemens in your PC to work with the MPI-Modem. The configuration of the MPI-Modem can be made with the TeleService-software from Siemens or with the "MPI-Kabel Manager".

On the PC side you need another modem.

Installation PLCVCom

Install the PLCVCom-software on your PC (see attached link to the homepage or look on the delivered CD). After the restart of your pc, the software PLCVCom will be started automatically. Please click on the icon (near of the time information in the status line of your windows) of the PLCVCom software and you get a new window. **Please press "configure" and you get a new information window.** There, you can configure the IP-address of the MPI-LAN or S7-LAN, you want to communicate. **Or, you press "search" and the software looks for all cables connected to this PC. You select the cable you want to communicate and press the OK-button. The PLCVCom checks the communication and gives you the virtual com-port back.** Please note, proof of your pc has a own correct IP-address. If your pc gets an IP-address from a DHCP-Server, you should proof, if your pc has after disconnecting the lan a guilty IP-Address. If not, there won't be a correct communication.

The virtual COM-Port is only view-, select- and accessible when the PLCVCOM is in the „connected“ state, that means a cable is present and usable.

Additional to MPI-II-Kabel, MPI-USB and MPI-LAN:

The cables can be driven in a mode, called "automatic". In this mode, your cable proofs while starting up if it is connected to a MPI- or Profibus-net. For this, you have to configure your cable under *config* → *mpi-bus* → *baudrate* to the position "auto". Now, reset the cable and it will proof in this moment the bus.

After this moment, please plug at first the bus (mpi or profibus) and after this the pc or a external power supply.

This cable uses new faster protocols (V5.1), so a serial communication is only possible with a baudrate up to 38K4. This communication is faster than the older protocol (V5.0) with a baudrate of 115K2. Under *config* → *protocol* you can change the kind of protocol.

A usage of the MPI-SPEED-driver with the virtual com-port PLCVcom is able, but you don't get any advantage.

Please note, that the other parameters like (bus-baudrate, HSA, own mpi-address) are correct configured.

More to the interface-cable as well as the current manual or the special manual for MPI-LAN, MPI-USB, S5-LAN and S7-LAN you can download under:

www.tpa-partner.de/kabel.htm