S7 for Windows®

www.ibhsoftec.com/S7W-Eng
Programming tool for the SIMATIC S7-300 and S7-400 series

- Windows 8 (32-Bit and 64-Bit) support
- Can be combined with S5 for Windows® or runs standalone
- Complete S7 instruction set implemented in the presentations Statement List (STL), Function Block Diagram (SFC) and Ladder Diagram (LAD)
- Status of variable views and symbolic tables
- STEP 7-projects can be edited directly without im-/export
- Conversion from S5- to S7-programs
- Integrated S7-Simulation
- Comfortable block comparison (BlockDiff)
- Fully automated debugging without program adaption
- Oscilloscope feature
- OsciCAM®: analyze motion processes through synchronisation of previously recorded videos and process signals
- Statusrecorder: dynamic procedures can be explored by subsequently analysis of the block status frame by frame
- LogView: graphical representation and synchronisation of measurements
- IntelliSense: intelligent input assistance
- Hardware configuration
- Hardware catalogue can be extended with GSD-files
- Hardware catalogue can be updated over internet
Programming tool designed for programming the Siemens PLC family SIMATIC S5 with STEP 5

- Windows 8 (32-Bit and 64-Bit) support
- Can be combined with S7 for Windows® or runs stand alone
- Multiple segments can be shown in the status display
- Statement List (STL), Function Block Diagram (SFC) and Ladder Diagram (LAD) presentations
- Projects are compatible to the original Siemens programming tool
- STEP5-projects can be edited directly without im-/export
- Integrated S5-Simulation
- Comfortable block comparison (BlockDiff)
- Emulator to call original COM-Packages
- Online on SIMATIC S5 via SINEC L2 with the IBH Link S7++
- Graphical Step Sequence Programming
- Fully automated debugging without program adaption
- Oscilloscope feature
- OsciCAM®: analyze motion processes through synchronisation of previously recorded videos and process signals
- Statusrecorder: dynamic procedures can be explored by subsequently analysis of the block status frame by frame
- LogView: graphical representation and synchronisation of measurements
- IntelliSense: intelligent input assistance
SoftPLC S7-315/S7-416

- OPC-Access
- Internal Siemens Online Interface
- Internal Siemens Online Interface
- PLC Communication
- Ethernet
- Profinet IO
- EtherCAT, Fipio, CC-Link, LON, EIB
- AS-Interface CANopen
- Modbus TCP InterBus
- Profibus DP DeviceNet

www.ibhsoftec.com/SoftPLC-416-Eng
SoftPLC inside a PC

The IBH SoftPLC S7-315 / S7-416 executes a program in the same manner as a hardware PLC. The advantage of executing a PLC program this way is, that the PLC status can be displayed in real time. Since the Soft PLC behaves like an original SIMATIC PLC, the programming tools S7 for Windows® and STEP 7 can be used. The SoftPLC allows process monitoring, operation and control from one hardware unit. The use of the Soft-PLC is especially useful if a PC for data collection, process visualization, programming, or any other reason needs to be used anyway. A SoftPLC solution eliminates the need for a hardware PLC and the corresponding communication processor.

Supported Fieldbussystems

<table>
<thead>
<tr>
<th>Fieldbus card/-system</th>
<th>Hilscher</th>
<th>Beckhoff</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightbus</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>PROFIBUS</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>PROFINET I/O</td>
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<td></td>
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<tr>
<td>Interbus</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>DeviceNet</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>AS-i</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>CANopen</td>
<td>✓</td>
<td>✓</td>
</tr>
<tr>
<td>sercos</td>
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<td>✓</td>
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<tr>
<td>EtherCAT</td>
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<td>✓</td>
</tr>
<tr>
<td>ControlNet</td>
<td></td>
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</tr>
<tr>
<td>Fipio</td>
<td></td>
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</tr>
<tr>
<td>CC-Link</td>
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</tr>
<tr>
<td>LON</td>
<td></td>
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<tr>
<td>EIB</td>
<td></td>
<td>✓</td>
</tr>
<tr>
<td>MP-Bus</td>
<td></td>
<td>✓</td>
</tr>
</tbody>
</table>
SoftPLC S7-315/S7-416
SoftPLC inside a PC

- Windows 8 (32-Bit and 64-Bit) Support
- Access standard I/O boards as well as numerous intelligent hardware boards
- Direct access with S7 for Windows®, OPC Server, STEP 7 or DLL
- Online functions possible using ISO-on-TCP (RFC1006), Modbus TCP, IBHNet driver or PROFIBUS with intelligent hardware boards
- PLC-PLC communication with various Ethernet protocols
- CP 343/443 emulation
- I/O monitor
- Read the diagnostic buffer without programming tool
- For our OEM-Customers the company Hilscher Gesellschaft für Systemautomation mbH provides our PLC kernel on the netX 500 Chip
- For our OEM-Customers a Windows CE version is available
- Also available as a pure Simulation PLC

SoftPLC S5-943/S5-945

The SoftPLC is also available as S5 version. Since the SoftPLC behaves like an original SIMATIC PLC, the programming tools S5 for Windows® and STEP 5 can be used. Access to the field bus can be made with the Hilscher-CIF cards over PROFIBUS-DP, INTERBUS, AS-i Bus, Device-Net and CAN-Bus. With the TwinCAT I/O driver it is possible to use any Beckhoff field bus master.

www.ibhsoftec.com/SoftPLC-945-Eng
S7-CX315/S7-CX317

www.ibhsoftec.com/S7-CX315-Eng
The PLC, that connects two worlds

The powerful S7-CX317 and the Low-Price S7-315 are S7 compatible PLCs based on Beckhoff hardware with EtherCAT.

Since the new S7-CX series behaves like a original SIMATIC PLC, the programming tools S7 for Windows® and STEP 7 can be used. Online connections can be established via Ethernet. The S7-CX executes a program in the same manner as a hardware PLC. The program of a S7-PLC can be transferred to the S7-CX series.

As hardware platform for the S7-CX, the modular DIN rail PCs of the CX series of the Beckhoff automation GmbH is used. The fieldbus used to control the central and the distributed I/O primarily is EtherCAT (Real-Time Ethernet).

- PG functions with STEP 7 or S7 for Windows®
- S7 for Windows® (KIT-Version) included
- Connecting HMI applications
- PLC-PLC communication via the integrated Ethernet CP
- Access over a TCP / IP Ethernet with the IBHNet driver
- Based on the reliable and flexible Beckhoff hardware

<table>
<thead>
<tr>
<th>IBH S7-CX series</th>
<th>RAM</th>
<th>Load memory</th>
<th>Retain memory</th>
<th>Processing time</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>IBH S7-CX315</td>
<td>256 KB</td>
<td>256 KB</td>
<td>64 KB</td>
<td>0,2 µs/Instr.</td>
<td>59 x 100 x 91 mm</td>
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<tr>
<td>IBH S7-CX317</td>
<td>16 MB</td>
<td>4 MB</td>
<td>64 KB</td>
<td>0,075 µs/Instr.</td>
<td>59 x 100 x 91 mm</td>
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</table>
IBH Link S7++ HS

The IBH Link S7++ HS (#20268) offers the same features/drivers like the IBH Link S7++ and is suitable for rail mount.
Cost efficient Ethernet-PROFIBUS-Gateway for the communication between PC and S7-200, S7-300 or S7-400, between PLCs and for FDT applications.

- CommDTM for FDT container available for free
- Master Class 2 for acyclic services (DPV1)
- Read the diagnostic buffer via web browser
- PROFIBUS-Slave Diagnostic
- Online to SIMATIC S5 via SINEC L2
- Configuration via web browser
- IPv6 support
- Configuration via NetPro
- Windows 8 (32-Bit and 64-Bit) support
- STEP 7 (32-Bit and 64-Bit) support
- Time synchronisation
- PROFIBUS diagnostic
- Setting of slave Parameter via DPV1
- Data set routing
- Drive configuration
- Integration within the TIA portal
- DHCP
- S7 routing via RFC1006
- Fetch/Write via RFC1006
- PLC-PLC communication
- Process data access with other PLC, Windows and Linux
- Support for STARTER, S7-PCT, PDM, LifeList, COM PROFIBUS
- Setting and diagnostic of field devices with TCI
- Up to 16 parallel PC connections at the same time
- Up to 32 parallel MPI / DP connections at the same time
- Automatic bus profile detection
- PG-connector
- RJ45 Ethernet (10/100) with autonegotiation
- Diagnostic LEDs
- Power supply from the MPI / DP interface (S7++ only)
- External 24V supply possible

www.ibhsoftec.com/IBH-Link-S7-PP-HS-Eng
**CommDTM for IBH Link S7++**

New application fields beside the S7 world through CommDTM for the IBH Link S7++

For the well proven gateway IBH Link S7++, IBHsoftec GmbH now offers a free Communication DTM.

The IBH Link S7++ is a gateway from Ethernet to MPI/PROFIBUS (Class 2 Master), available inside the connector housing, or for DIN rail mount. With the Communication DTM (CommDTM), the IBH Link S7++ can be used for configuration and parametrization of Field Devices, based on the FDT (Field Device Tool) technology. The CommDTM can be used in the FDT Frame Application like for instance PACTware or FieldCare and provides communication to the PROFIBUS. A GatewayDTM for DP/PA Link is available for free.

Of course, all existing standard communication modes are still available and active. This way parallel projecting and maintenance of plants with S7 PLCs is possible. Also HMI devices for process visualization can use the IBH Link S7++ to connect to a S7 PLC.
One of the new possibilities allows you to diagnose and configure Profibus nodes or drives over data set routing with the standard S7 engineering tools. This permits the use of tools like STARTER or PDM in networked environments. The driver software can also be integrated into the TIA Portal.

In addition, the IBH Link S7++ can be used to establish PLC to PLC communications. The connection information is projected with the standard tool NetPro and is part of the project. Also, the connection information can be downloaded to the IBH Link S7++ with NetPro. In the PLC program no special blocks are required because it is a standard S7 connection, requiring only the usual blocks for S7 communications.

A well documented open API with free source code, permits platform independent access to S7 variables, regardless of the programming language or operating system. In addition S7 connections are not limited by subnet depth, also S7 routing for PLCs and HMI panels is supported.
IBH Link S5++  Product number #20284

Cost efficient Ethernet-PLC-Gateway for the communication between PC and SIMATIC S5 PLC.

- Standard-TCP/IP protocol
- Direct access with S5 for Windows®
- Driver for STEP 5 from V7.16 included
- Access of S7-HMI-Devices via RFC1006
- Programming functionalities for HMI-Applications
- API for HMI-Applications included
- Configuration via USB possible
IBH OPC Server: easy automation

With the IBH OPC Server a visualization application can be linked with a SIMATIC PLC S5, S71200, S7-200, S7300 and S7-400 or an IBHsoftec SoftPLC.

- Windows 8 (32-Bit and 64-Bit) support
- Reach your goals with just a few clicks
- Adopt the symbolic addressing of you PLC-program
- Many different communications like TCP/IP, H1, serial, USB possible ...
- Full featured demo version available for free
S7/S5-Interfaces

USB-S7 Adapter MPI, DP, PPI #20218
For S7-200, S7-300 oder S7-400
- Integrated LCD-Display shows the transmission rate and MPI/DP address
- Membrane keypad for the adapter configuration
- Powered by the PC, no power supply necessary

www.ibhsoftec.com/USB-S7-Adapter-C-Eng

IBH USB-S5-Adapter #20220
- Driver for S5 for Windows® and STEP 5 from V7.16 included
- Powered by the PC, no power supply necessary

www.ibhsoftec.com/IBH-USB-S5-Adapter-Eng

IBH S5-Current loop converter #2020
- For a serial connection between a PLC and a S5-PLC
- Fits the following PLCs: 90U, 95U, 100U, 101U, 115U, 135U und 155U

www.ibhsoftec.com/IBH-RS232-S5-Adapter-Eng
**Constant Current Adapter for the IBH S5-Current loop converter #2040, #2042, #2044, #2046, #2048**

- For PLCs, that are not supplying the loop current (2 x 20mA), the Constant Current Adaptor is required to establish a connection.

[Link](www.ibhsoftec.com/S5-Interface-Eng)

**USB S5/S7 Prommer (Siemens) #2008**

- The USB S5/S7 Prommer works together with S5/S7 for Windows®, STEP 5 and STEP 7

[Link](www.ibhsoftec.com/USB-S5S7-Prommer-S-Eng)

**EPROM Eraser LG07 #2010**

- Used to erase S5 modules and EPROMs

[Link](www.ibhsoftec.com/Eprom-Eraser-Lg07-Eng)