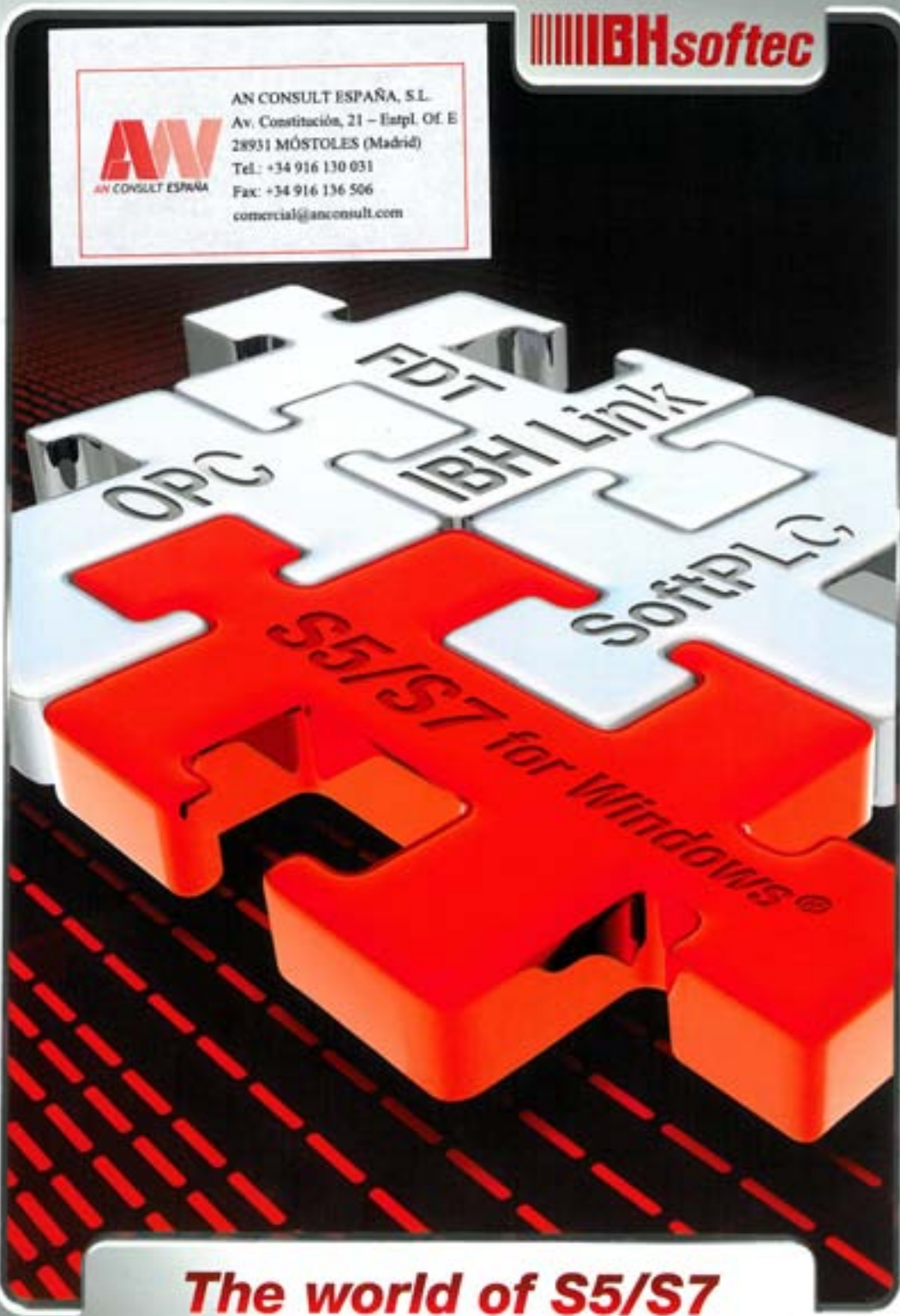
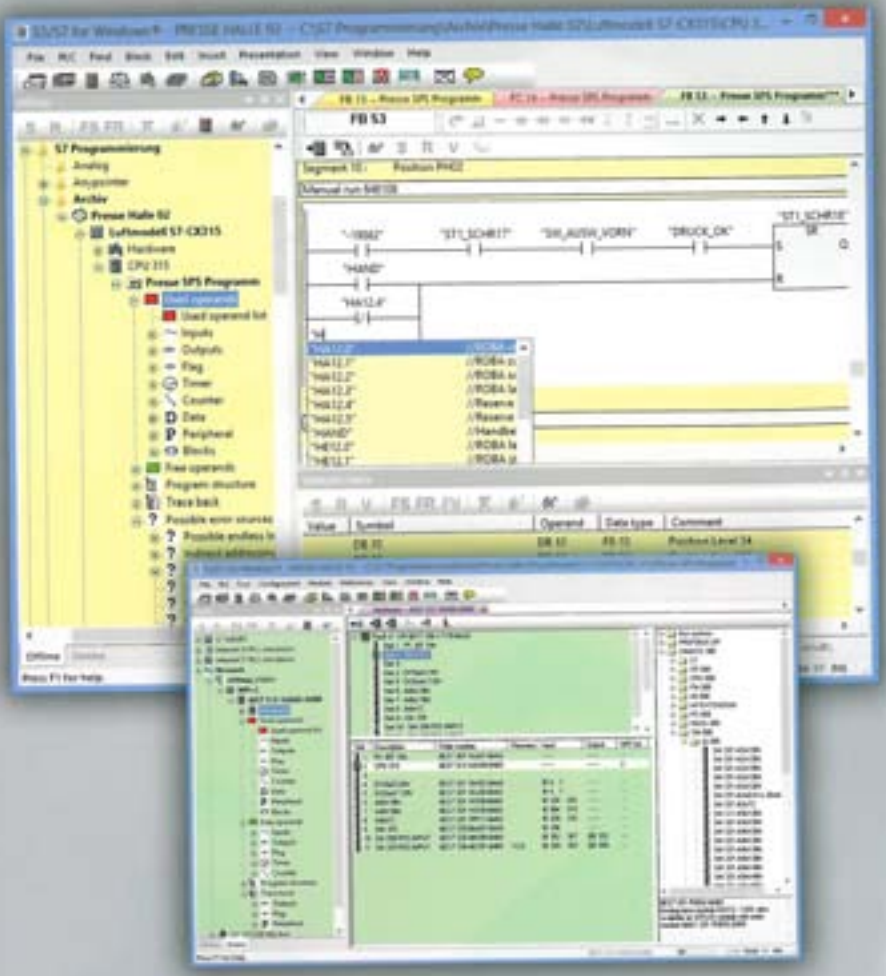
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S7 for Windows®



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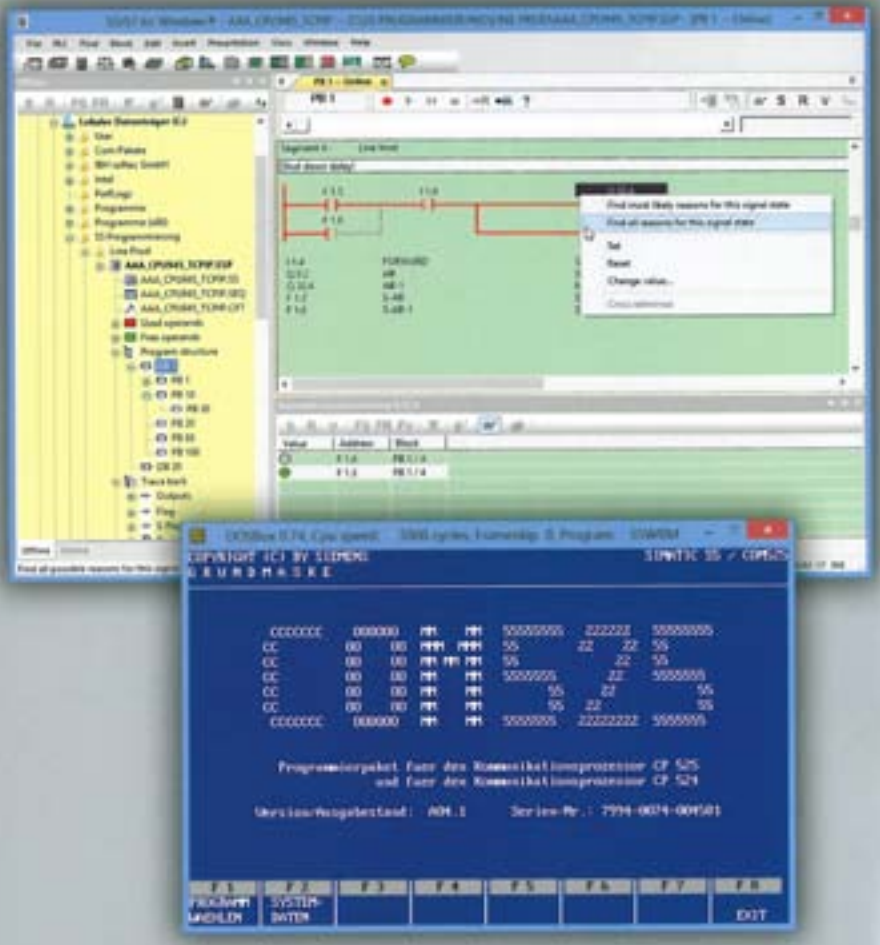
Product number #10020

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



S5 for Windows®



www.ibhsoftec.com/S5W-Eng

Product number #10018

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
- STEP 5-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



www.ibhsoftec.com/SoftPLC-416-Eng

Product number S7-315 #1300
Product number S7-416 #1302

SoftPLC inside a PC

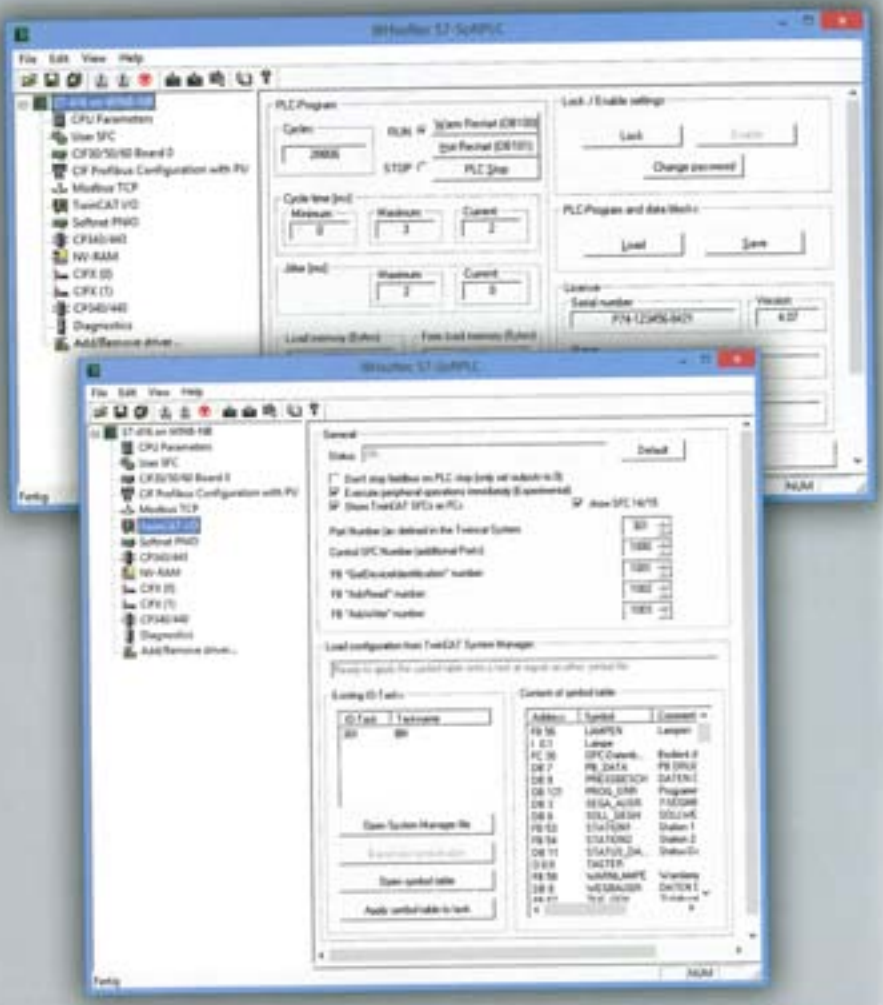
The IBH SoftPLC S7-315 / S7-416 executes a program in the same manner as a hardware PLC. The advantage of executing a PLC program this way is, that the PLC status can be displayed in real time. Since the Soft PLC behaves like an original SIMATIC PLC, the programming tools S7 for Windows® and STEP 7 can be used. The SoftPLC allows process monitoring, operation and control from one hardware unit. The use of the SoftPLC 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

Fieldbus card/-system	Hilscher	Beckhoff
Lightbus	–	✓
PROFIBUS	✓	✓
PROFINET I/O	✓	–
Interbus	✓	✓
DeviceNet	✓	✓
AS-i	✓	✓
CANopen	✓	✓
sercos	✓	✓
EtherCAT	✓	✓
ControlNet	–	✓
Fipio	–	✓
CC-Link	–	✓
LON	–	✓
EIB	–	✓
MP-Bus	–	✓

SoftPLC S7-315/S7-416



www.ibhsoftec.com/SoftPLC-416-Eng

Product number S7-315 #1300
Product number S7-416 #1302

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

Product number S5-943 #1204
Product number S5-945 #1206

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



EtherCAT®

www.ibhsoftec.com/S7-CX315-Eng

Product number S7-CX315 #3020
Product number S7-CX317 #3012

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

IBH S7-CX series	RAM	Load memory	Retain memory	Processing time	Dimensions
IBH S7-CX315	256 KB	256 KB	64 KB	0,2 µs/Instr.	59 x 100 x 91 mm
IBH S7-CX317	16 MB	4 MB	64 KB	0,075 µs/Instr.	59 x 100 x 91 mm

IBH Link S7++



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.

NEW!

www.ibhsoftec.com/IBH-Link-S7-PP-Eng

Product number S7++ #20266
Product number S7++ HS #20268

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.

FDT Group Member

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.

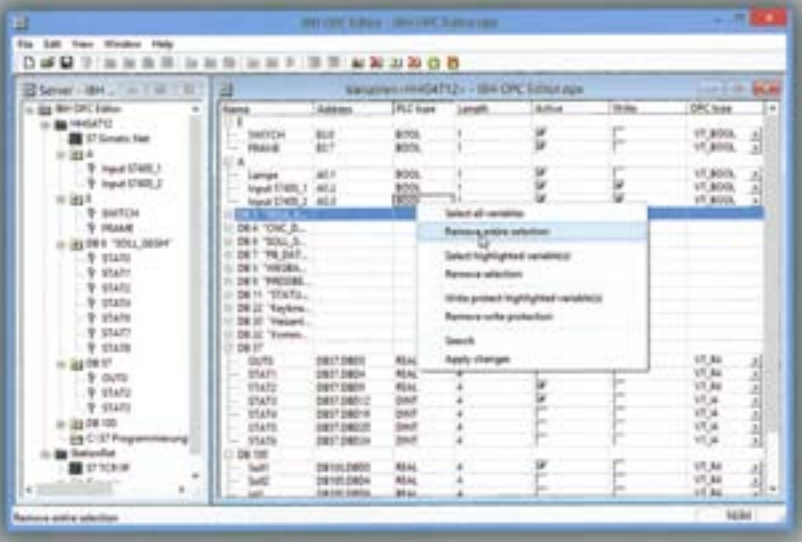


- Standard-TCP/IP protocol
- Direct access with S5 for Windows®
- Driver for STEP 5 from V7.16 included
- Access of S7-HMI-Devices via RFC1006
- Programming functionalities for HMI-Applications
- API for HMI-Applications included
- Configuration via USB possible

www.ibhsoftec.com/IBH-Link-S5-PP-Eng

OPC Server

Product number #1150



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

www.ibhsoftec.com/IBH-OPC-Server-Eng

IBHsoftec

NEW!

The compact OPC UA server for S5- and S7-PLC



IBH Link UA

OPC UA Server with integrated Firewall

- OPC UA Server for easy connection to MES, ERP and SAP systems and visualizations
- OPC UA Client functions for S7 PLC to connect to external OPC UA server systems
- 4 Ethernet Ports with Firewall → clean separation of machine and supervision level
- Scalable security levels through exchange of digitally signed certificates
- Connection to S7-PLCs over S7 TCP/IP or IBH Link S7++
- Connection to S5-PLCs over IBH Link S5++
- Comfortable configuration with Siemens STEP7 or the TIA Portal → no need for other special software
- Administration via web browser

OPC UA

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IBHsoftec

IBH Link UA

Product number #3200



The IBH Link UA is an OPC UA Server/Client module with integrated firewall for the SIMATIC S5, S7-300, S7-400, S7-1200 and S7-1500 PLC. The configuration of the IBH Link UA is made with Original Siemens STEP7 or the TIA Portal. There is no need for other special software.

Thus, the IBH Link UA can be seamlessly integrated into the PLC project. The definition of the variables will be transferred from the programming tool to the IBH Link UA via Ethernet. The attributes of the variables (f.i. write protection or limits) will be defined directly within the PLC project.

This allows symbolic access to variables and data block structures. The communication to the S5 and S7 PLC is established over Ethernet. There are three Ethernet Ports for machine level on the IBH Link UA and one Ethernet Port for the supervision level. On the supervision level only OPC access is allowed. Between both levels there is a firewall integrated. The configuration of the Ethernet ports can be made using a standard web browser.

OPC Client functions can also be called directly within the PLC program to allow communication with PLCs of other manufacturers via OPC UA. Therefore, handling blocks in STL are provided.

SIMATIC, S7-300, S7-400, S7-1200, S7-1500, STEP and TIA are registered trademarks of Siemens AG in Berlin and Munich.

www.ibhsoftec.com/IBH-Link-UA-Eng

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S7/S5-Interfaces

USB-S7 Adapter MPI, DP, PPI #20218

For S7-200, S7-300 oder S7-400

- Integrated LCD-Display shows the transmisson 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

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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.



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



www.ibhsoftec.com/USB-S5S7-Prommer-S-Eng

EPROM Eraser LG07 #2010

- Used to erase S5 modules and EPROMs



www.ibhsoftec.com/Eprom-Eraser-Lg07-Eng

BHsoftec

Siemens USB S5/S7 Prommer

64 Bit Driver

for the programming tool

S5/S7 for Windows®



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- S5 EEPROM Modules
- S5 Memory Cards
- S7 Memory Cards
- S7 Micro Memory Cards

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