

A large industrial factory setting with a prominent curved conveyor belt system in the foreground, surrounded by various machinery and equipment. The floor is polished and reflects the overhead lights.

The World of S5/S7

- ▶ S5/S7 for Windows®
- ▶ IBH Link UA
- ▶ IBH Link
- ▶ OPC
- ▶ SoftPLC



IBH Link UA

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



- ▶ 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 the free of charge IBH OPC UA Editor, Siemens STEP7 or the TIA Portal
- ▶ Handles up to 31 projects simultaneously
- ▶ Administration via web browser
- ▶ Historical Data
- ▶ Alarms & Conditions
- ▶ MQTT implementation
- ▶ AWS Greengrass / AWS IoT implementation
- ▶ Azure IoT Hub implementation
- ▶ IBM Watson IoT implementation



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

Product number #3200



The IBH Link UA is an OPC UA Server/Client module with integrated firewall for the SIMATIC S5, S7-200, S7-300, S7-400, S7-1200, S7-1500 and LOGO! (Ethernet versions) PLC. It is a compact unit for DIN rail mount with four Ethernet ports and a 24V power supply.

The configuration of the IBH Link UA is made with the free IBH OPC Editor, the 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 IBH Link UA can handle up to 31 STEP7 and / or TIA projects simultaneously.

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. If the PLC has no Ethernet port, our well known gateways IBH Link S7++ or IBH Link S5++ can be used. 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, which use PUT/GET functions for the communication with the IBH Link UA.

IBH OPC UA IoT 2040

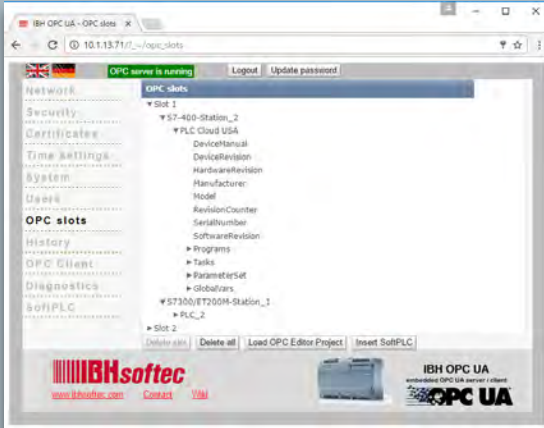


- ▶ OPC UA Server for easy connection to MES, ERP and SAP systems & visualizations
- ▶ OPC UA Client functions for data exchange between different OPC UA Servers
- ▶ Integrated SoftPLC for data preprocessing
- ▶ 2 Ethernet Ports with Firewall for clean separation of machine and supervision level
- ▶ 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 the free of charge IBH OPC UA Editor, Siemens STEP7 or the TIA Portal
- ▶ Handles up to 31 projects simultaneously
- ▶ Administration via web browser
- ▶ Historical Data
- ▶ Alarms & Conditions
- ▶ MQTT implementation
- ▶ AWS Greengrass / AWS IoT implementation
- ▶ Azure IoT Hub implementation
- ▶ IBM Watson IoT implementation



www.ibhsofttec.com/IBH-OPC-UA-iot2040-Eng

Product number #3206



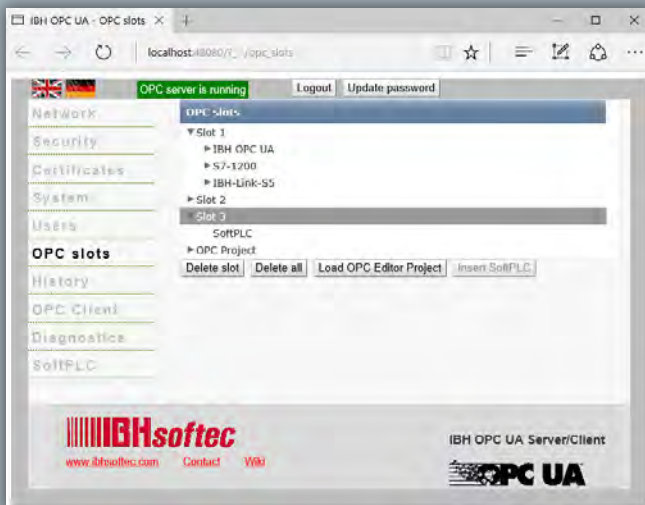
A microSD card with the OPC UA server/client with IBHsoftec fire-wall is available for the Siemens Gateway IoT2040 (6ES7647-0AA-00-1YA2). By simply plugging the preconfigured microSD card from IBHsoftec, the IoT2040 becomes an OPC UA server/client for Siemens PLCs. This solution integrates SIMATIC S5, S7-200, S7-300, S7-400, S7-1200, S7-1500 and Logo! (Ethernet versions) Controllers into the OPC UA world.

The configuration of the IBH OPC UA Server/Client is made with the free IBH OPC Editor, the Original Siemens STEP7 or the TIA Portal. There is no need for other special software. Thus, the OPC UA Server/Client can be seamlessly integrated into the PLC project.

The communication to the S5 and S7 PLC is established over Ethernet. If the PLC has no Ethernet port, our well known gateways IBH Link S7++ or IBH Link S5++ can be used. There is one Ethernet Port for machine level 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.

One of the advantages of the IBHsoftec solution is, that it supports Client and Server functions simultaneously. This allows data exchange between different OPC UA Servers.

IBH OPC UA Server/Client

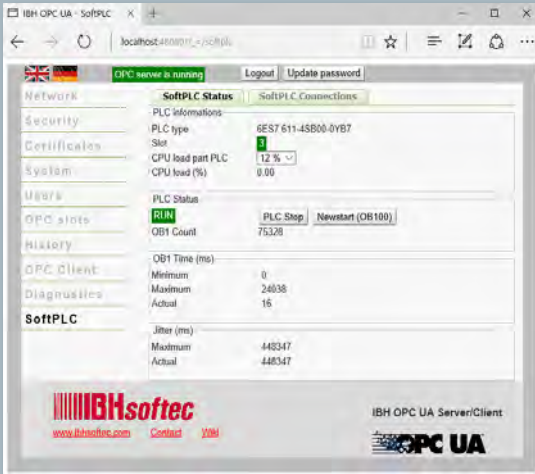


- ▶ OPC UA Server for easy connection to MES, ERP and SAP systems and visualizations
- ▶ OPC UA Client functions data exchange between different OPC UA Servers
- ▶ Integrated SoftPLC for data preprocessing
- ▶ Scalable security levels through exchange of digitally signed certificates
- ▶ Connection to S7-PLCs over S7 TCP/IP or IBH Link S7++
- ▶ Connection to S5-PLCs over IBH Link S5++
- ▶ Comfortable configuration with the free of charge IBH OPC UA Editor, Siemens STEP7 or the TIA Portal
- ▶ Handles up to 31 projects simultaneously
- ▶ Administration via web browser
- ▶ Historical Data
- ▶ Runs on Windows XP, Vista, Windows 7, Windows 8, Windows 10
- ▶ Alarms & Conditions



www.ibhsofttec.com/IBH-OPC-UA-Server-Eng

Product number #1180



OPC UA Server/Client for the SIMATIC S5, S7-200, S7-300, S7-400, S7-1200, S7-1500 and LOGO! (Ethernet versions) PLC.

The configuration of the IBH OPC UA Server/Client is made with the free IBH OPC Editor, the Original Siemens STEP7 or the TIA Portal. There is no need for other special software. Thus, the IBH OPC UA Server/Client can be seamlessly integrated into the PLC project. The IBH OPC UA Server/Client can handle up to 31 STEP7 and / or TIA projects simultaneously.

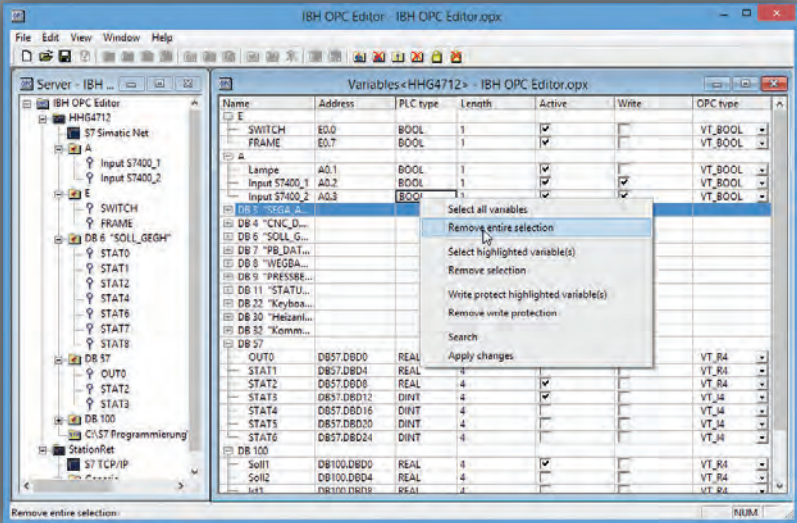
The definition of the variables will be transferred from the programming tool to the IBH OPC UA Server/Client via Ethernet. The attributes of the variables (f.i. write protection or limits) will be defined directly within the PLC project. This allows symbolic access to variables and data block structures.

The communication to the S5 and S7 PLC is established over Ethernet. If the PLC has no Ethernet port, our well known gateways IBH Link S7++ or IBH Link S5++ can be used.

One of the advantages of the solution from IBHsoftec is, that the IBH OPC UA supports Client and Server functions simultaneously. This allows data exchange between different OPC UA Servers. For example control systems and other equipment with OPC UA servers from different manufacturers can exchange data with each other. The configuration of the client functions can be made using a standard web browser.

OPC Server

Product number #1150



IBH OPC Server: easy automation

With the IBH OPC Server a visualization application can be linked to any SIMATIC PLC (including Ethernet enabled LOGO!) and IBHsoftec SoftPLCs.

- ▶ Windows® 10 support
- ▶ Reach your goals with just a few clicks
- ▶ Adopt the symbolic addressing of your 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

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
- ▶ FETCH/WRITE protocol supported



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

IBH Link S7++



IBHsoftec IBHLink S7++

Home | Configuration | Diagnostics | Change Password

Connected PROFIBUS Devices:			
Address	Status	Type	Manufacturer
1	M ?	---	---
2	M	6GK7 342-5DA00-0XE0	---
3	S	IL PB BK DPV1 (DIP8)	Phoenix Contact
4	M	6ES7 151-8AB01-0AB0	Original Siemens Equipment

S7 Diagnostics:

Serial number: S C-B3WE94862011
Station name: IM151 PN/DP Demo Project
Module name: IM151-B PN/DP CPU
Plant designation: Demonstration
Location designation: Development dept.
Operating mode: RUN
Module time: Montag, 30. Januar 2012 12:59:40
Diagnostic buffer: Event 5/10

Mode transition from STARTUP to RUN
Samstag, 26. Januar 2012 11:33:40

Startup information:
- Time for time stamp at the last backed up power on
- Single processor operation
Current/last startup type:
- Warm restart triggered via MPI, last power on backed up
Permissibility of certain startup types:
- Manual warm restart permitted
- Automatic warm restart permitted
Last valid operation or setting of automatic startup type at power on:
- Warm restart triggered via MPI, last power on backed up
Previous operating mode: No voltage
Requested operating mode: No voltage (PK 68)
Event entering state

10	S	MOVDRIVE DPP21MCH41	SEW-EURODRIVE
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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.



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

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

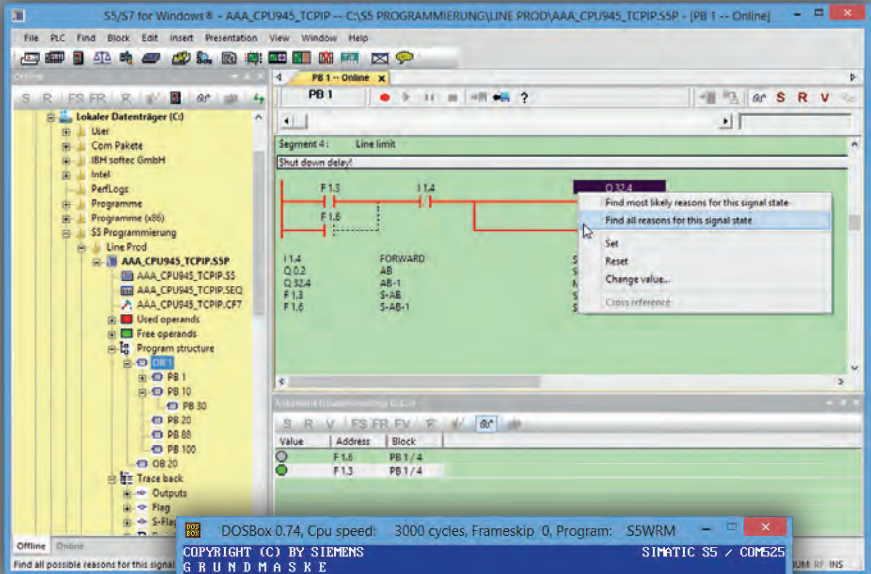
Cost efficient Ethernet-PROFIBUS-Gateway for programming, drive configuration, for communication between PC and Siemens PLCs, inter-PLC communication and FDT applications

- ▶ 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® 10 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
- ▶ 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

S5 for Windows®



DOSBox 0,74, Cpu speed: 3000 cycles, Frameskip 0, Program: S5WRM

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GRUNDMA S K E

SIMATIC S5 / COM525

```

CCCCC  00000  MM  MM  5555555  222222  55555555
GC      00  00  MM  MM  55      22  22  55
CC      00  00  MM  MM  55      55      22  55
CC      00  00  MM  MM  5555555  22  55555555
CC      00  00  MM  MM           55      22      55
CC      00  00  MM  MM           55      22      55
CCCCC  00000  MM  MM  5555555  22222222  5555555
    
```

Programmierpaket fuer den Kommunikationsprozessor CP 525
und fuer den Kommunikationsprozessor CP 524

Version/Ausgabestand: A04.1 Serien-Nr.: 7994-0074-004581

F 1	F 2	F 3	F 4	F 5	F 6	F 7	F 8
PROGRAMM WAELHEN	SYSTEM- DATEN						EXIT



www.ibhsoftec.com/S5W-Eng

Programming tool designed for programming the Siemens PLC family SIMATIC S5 with STEP 5

- ▶ Windows® 10 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
- ▶ Driver for Siemens USB S5/S7 Prommer available

S7 for Windows®

The screenshot displays the S5/S7 for Windows software interface. The main window shows a ladder logic program for Segment 18, Position PH02, Manual run 646108. The program includes a set coil (S) for "ST1_SCHR18" and a reset coil (R) for "ST1_SCHR18". The set coil is triggered by a normally open contact labeled "HA12.0" with the comment "//ROBA w". The reset coil is triggered by a normally open contact labeled "HA12.4" with the comment "//Reserve".

The hardware configuration window shows the following table:

Value	Symbol	Operand	Data type	Comment
DB 10		DB 10	FB 10	Position Level 54

The hardware configuration window also shows a list of modules:

Slot	Module	Order number	Power	Input	Output	MP AC
1	PS 307 5A	6ES7 307-1EA00-0AA0			2	
2	CPU 315	6ES7 315-1AD00-0AB0				
3	DI16/DO16	6ES7 321-1BH02-0AA0	8.6	1		
4	AI5/AO1	6ES7 321-1BH02-0AA0	8.4	2		
5	AI5/AO1	6ES7 321-1BH02-0AA0	8.28	3M		
6	AI5/AO1	6ES7 321-1BH02-0AA0	8.304	3P		
7	AI5/AO1	6ES7 321-1BH02-0AA0	16.322	3P		
8	AI5/AO1	6ES7 321-1BH02-0AA0	16.326			
9	AI5/AO1	6ES7 321-1BH02-0AA0	16.322	3P	CB 361	
10	AI5/AO1	6ES7 321-1BH02-0AA0	16.326	3P	CB 361	
11	AI5/AO1	6ES7 321-1BH02-0AA0	16.322	3P	CB 361	
12	AI5/AO1	6ES7 321-1BH02-0AA0	16.326	3P	CB 361	



www.ibhsoftec.com/S7W-Eng

Programming tool for the SIMATIC S7-300 and S7-400 series

- ▶ Windows® 10 support
- ▶ Can be combined with S5 for Windows® or runs stand-alone
- ▶ 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
- ▶ STEP7-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
- ▶ Driver for Siemens USB S5/S7 Prommer available

SoftPLC S7-315/S7-416

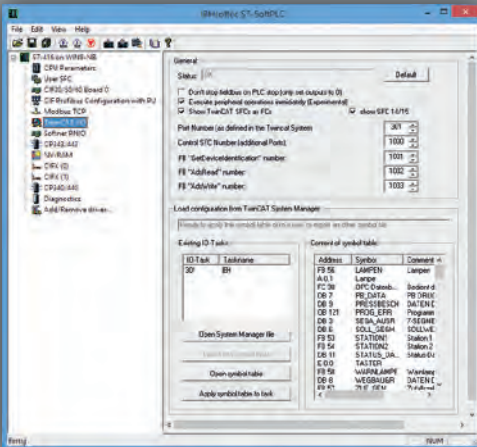


www.ibhsofttec.com/SoftPLC-416-Eng

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

SoftPLC S7

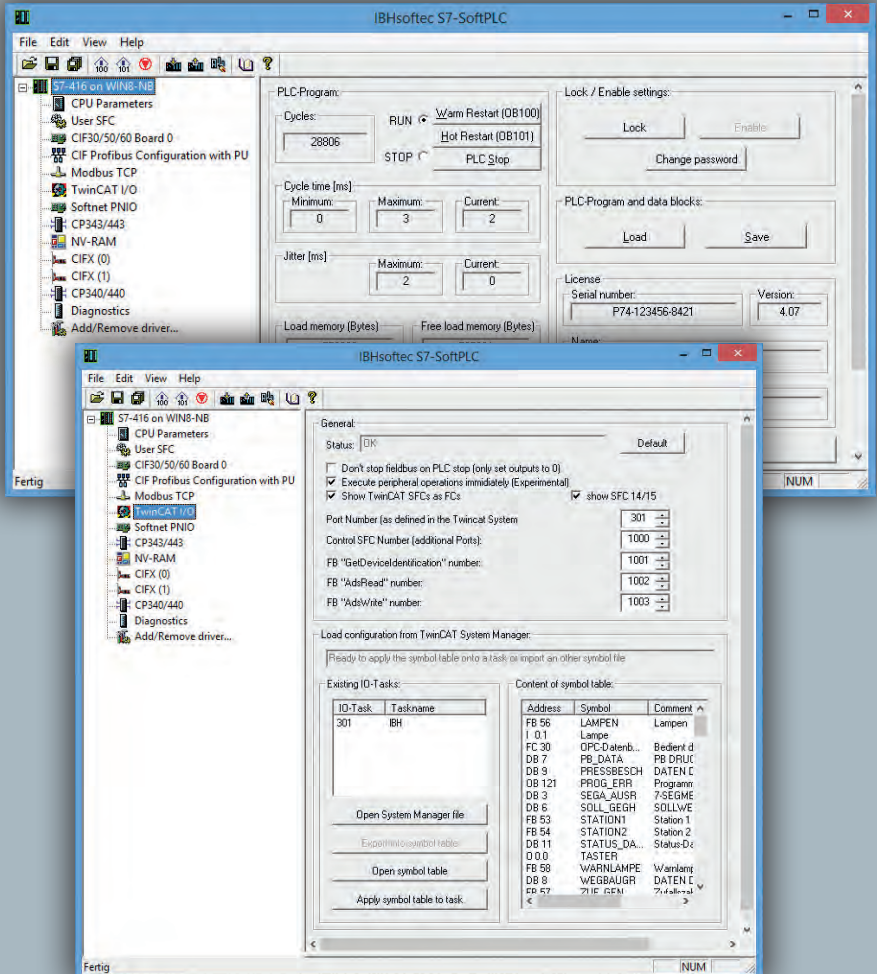
The IBH SoftPLC S7-315 / S7-416 executes a program in the same manner as a hardware PLC. The advantage of executing a PLC program this way is, that the PLC status can be displayed in real time. Since the Soft PLC behaves like an original SIMATIC PLC, the programming tools S7 for Windows® and STEP 7 can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

Fieldbus card/-system	Hilscher	Beckhoff
Lightbus	–	✓
PROFIBUS	✓	✓
PROFINET I/O	✓	–
Interbus	✓	✓
DeviceNet	✓	✓
AS-i	✓	✓
CANopen	✓	✓
sercos	✓	✓
EtherCAT	✓	✓

SoftPLC S7-315/S7-416



www.ibhsoftec.com/SoftPLC-416-Eng

Product number S7-315 #1300

Product number S7-416 #1302

SoftPLC S7

- ▶ Windows® 10 support
- ▶ Access to the field bus (e.g. PROFIBUS-DP, PROFINET, EtherCAT, etc...) with field bus master cards from Hilscher and Beckhoff or with standard I/O 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
- ▶ PLC-PLC communication with various Ethernet protocols
- ▶ CP 343/443 emulation
- ▶ I/O monitor
- ▶ Display 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

Product number S5-943 #1204

SoftPLC S5-943/S5-945

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 (e.g. PROFIBUS-DP, PROFINET, EtherCAT, etc...) can be made with field bus master cards from Hilscher and Beckhoff or with standard I/O boards.



www.ibhsoftec.com/SoftPLC-945-Eng

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

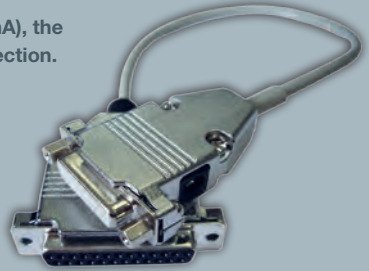


Constant Current Adapter for the IBH S5-Current loop converter #2042, #2044, #2046, #2048

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



www.ibhsofttec.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. 64 Bit Driver for S5/S7 for Windows® available



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



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USB S5/S7 Prommer

Product number
#2008

64 Bit Driver for the programming tool
S5/S7 for Windows®



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



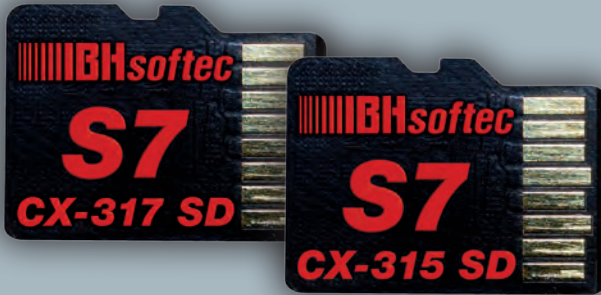
www.ibhsoftec.com/USB-S5S7-Prommer-S-Eng

S7-CX315/317 SD

Product number CX315 #3022

Product number CX317 #3024

**S7 compatible PLC for the complete
Beckhoff CX8000 series**



The S7-CX SD cards turn an embedded PC of the Beckhoff CX8000 series into a S7 compatible PLC and allow the use of the reliable and flexible Beckhoff hardware.

- ▶ Including S7 for Windows® (Kit-Version)
- ▶ STEP7 compatible
- ▶ Full retentivity
- ▶ Ethernet CP
- ▶ EtherCAT
- ▶ Web server
- ▶ Modbus TCP Master / Slave

The S7-CX315 SD / S7-CX317 SD can be used with the complete CX8000 series. Next to EtherCAT, the fieldbus systems PROFIBUS, CANopen, RS232/RS485, PROFINET RT, EtherNet/IP and Sercos III are directly available on the device.



www.ibhsoftec.com/S7-CX315-SD-Eng



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