

# IoT meets PLC-World



**IBH Link IoT • IBH Link UA • IBH Link S7++ • IBH Link S5++  
S5/S7 for Windows® • OPC UA • SoftPLC**

**[www.IBHsoftec.com](http://www.IBHsoftec.com)**

# IBH Link IoT

**IBH Link IoT: Remote maintenance  
of machinery with TeamViewer**



**TeamViewer**  
Internet of Things

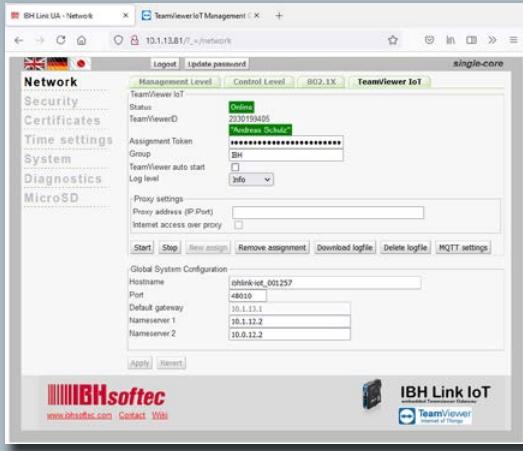
**No PC required!**



- IBH Link IoT with pre-installed TeamViewer software for secure access to almost all PLC systems
- On-site maintenance operations can be significantly reduced
- No PC required on site
- Encrypted data ensures high security
- Comfortable and simple configuration via web interface
- Support of all Ethernet capable controllers via the TCP and UDP protocols, e.g.:
  - S7-controllers addressable via S7 TCP/IP or IBH Link S7++
  - S5-controllers addressable via IBH Link S5++
  - SINUMERIK 840D/840D SL
  - Mitsubishi controllers MELSEC IQR, FX5, QnA and L series
  - Rockwell Controllogix and Compactlogix controllers
  - Bosch Rexroth controllers
  - Beckhoff TwinCAT controllers
  - Omron controllers
  - B&R control systems



**[www.ibhsoftec.com/IBH-Link-IoT](http://www.ibhsoftec.com/IBH-Link-IoT)**



The module IBH Link IoT together with TeamViewer allows easy access to controllers and their programming. It is a compact device for DIN rail mounting with four Ethernet ports and a 24V power supply.

With the newly developed gateway IBH Link IoT and the pre-installed TeamViewer software, the possibility is offered to access almost all PLC systems anytime and anywhere.

Complex modem solutions or the use of a PC on site are a thing of the past.



# **IBH Link UA**

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

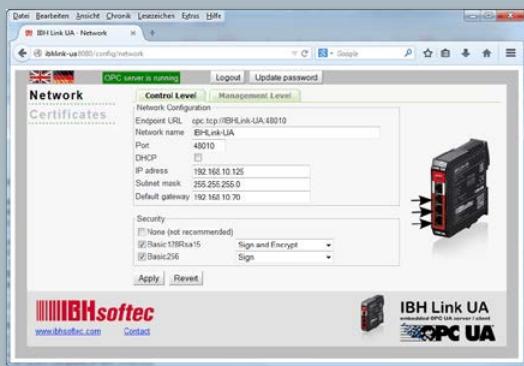


- ▶ OPC UA Server for easy connection to MES, ERP and SAP systems and visualizations
- ▶ OPC UA Client functions for S7 PLC to connect to external OPC UA server systems
- ▶ 4 Ethernet Ports with Firewall → clean separation of machine and supervision level
- ▶ Scalable security levels through exchange 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](http://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 Link UA goes Mitsubishi Electric**

## **Mitsubishi Electric's Controllers connectable to OPC UA via IBH Link UA**

Reading process data directly from the controller is becoming increasingly important, especially in times of digital transformation. New is, that besides the widely used protocol Modbus TCP, now Mitsubishi Electric's MELSEC controllers can also be connected to higher-level systems via the established IBH Link UA, an OPC UA server/client module with integrated firewall.

The IBH Link UA is an OPC UA Server/Client module with firewall. It is a compact device for DIN rail mounting with four Ethernet ports and a 24 V power supply. A new feature is the connection of Mitsubishi Electric controllers of the FX5, L, QnA and IQR series. Mitsubishi Electric controllers can be accessed with the same variety of functions from the OPC UA module. Also with Mitsubishi Electric controllers, userdefined OPC UA variables (e.g. those of the OPC UA Companion Specifications) can be exchanged with an MQTT broker and thus used



**[www.ibhsoftec.com/IBH-Link-UA-Eng](http://www.ibhsoftec.com/IBH-Link-UA-Eng)**

## Product number #3200

for cloud connections. Communication with the controllers will be done via TCP/IP. The additional function for Mitsubishi Electric controllers is also available for IBH Link modules that are already running. They can be easily upgraded via a free of charge update.

The IBH Link UA has three Ethernet ports for the machine level and one Ethernet port for higher-level systems such as MES/ERP and cloud solutions. The advantage of the device is that it is an embedded OPC UA server/client device. The OPC client function also enables data exchange between OPC servers. This function can be used, for example, by controllers or other devices with OPC UA from different manufacturers to exchange data. The client function is configured via the web interface. For user-defined OPC UA variables, data structures can be defined in a separate namespace and then connected to any other OPC UA server via the client function. Thus, other OPC UA clients can also read and write these data structures.

IBHsofttec is a member of the e-F@ctory Alliance. The global partner network consists of manufacturers of industrial components as well as specialized system integrators and software companies. The e-F@ctory Alliance has over 600 members worldwide.



# **IBH Link UA goes Rockwell Automation**

## **OPC UA module now also available for Rockwell controllers**

Reading out process data directly from the controller is becoming increasingly important during digital transformation. The IBH Link UA, an OPC UA server/client module with integrated firewall for S7 and S5 controllers, is well established in the market for these tasks. New is, that besides the widely used protocol Modbus TCP, this module now also provides its functionality for Rockwell controllers. For example, projects that use both types of controllers have a uniform interface to higher-level systems.

The IBH Link UA is an OPC UA server/client module with firewall. It is a compact DIN rail mounting device with four Ethernet ports and a power supply (24 V DC Input). Controllers like the Simatic S5, S7-200, S7-300, S7-400, S7-1200, S7-1500 and Logo can easily be connected to the OPC UA module. New is, that Rockwell controllers from the Logix family - ControlLogix and CompactLogix - are also supported. The Rockwell controllers are integrated like the Siemens PLC and can access the same functionality of the OPC UA module. For the Rockwell controllers as well, user-defined OPC UA variables can be exchanged with an MQTT broker/server and thus be used for cloud solutions. A special feature of the Rockwell controllers is, that the variable tables can be used directly from the controller. There is no need for a PLC project, which means an additional simplification. Communication with the controllers is established via TCP / IP. The additional functionality for the Rockwell controllers is also available for IBH Link UA modules that have already been commissioned and can simply be downloaded with a free update.



**[www.ibhsoftec.com/IBH-Link-UA-Eng](http://www.ibhsoftec.com/IBH-Link-UA-Eng)**

Product number #3200



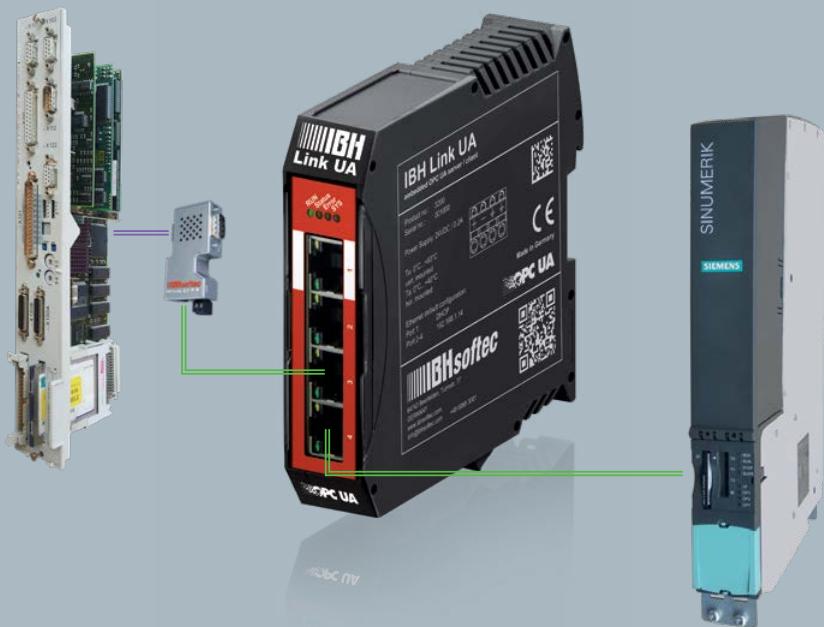
The IBH Link UA has three Ethernet ports for the machine level and one Ethernet port for higher-level systems, such as MES and cloud solutions. The advantage of the assembly is, that it is a server/client device. The OPC client function also enables the data exchange between OPC servers. For example, controllers or other devices with OPC UA from different manufacturers can exchange data via this function. The configuration of the client function is done via the web interface.

For user-defined OPC UA variables, data structures can be defined in a separate namespace and then connected to any other OPC UA server via the client function. Thus, other OPC UA clients can read and write these data structures.

Among other things, the new function is of particular interest for engineers who, for example, use Siemens controllers for applications in Europe and Rockwell controllers for the American market. For both solutions, a uniform interface to higher-level systems is available.



# **IBH Link UA goes SINUMERIK**



- ▶ Easy integration with the free IBH OPC UA Editor
- ▶ No limit in the number of axes
- ▶ Cloud connection over MQTT
- ▶ Parallel operation of:
  - SIMATIC S5, S7-200, S7-300, S7-400, S7-1200, S7-1500 and Logo!
  - SINUMERIK 840D and 840D sl
  - Mitsubishi MELSEC IQR, FX5, QnA and L series
  - Mitsubishi Robots
  - Rockwell Controllogix and Compactlogix
  - Controllers and Devices with Modbus



 **MQTT**

 **OPC UA**



**[www.ibhsofttec.com/IBH-Link-UA-Eng](http://www.ibhsofttec.com/IBH-Link-UA-Eng)**

# IBH OPC UA IoT 2040

Product number #3206

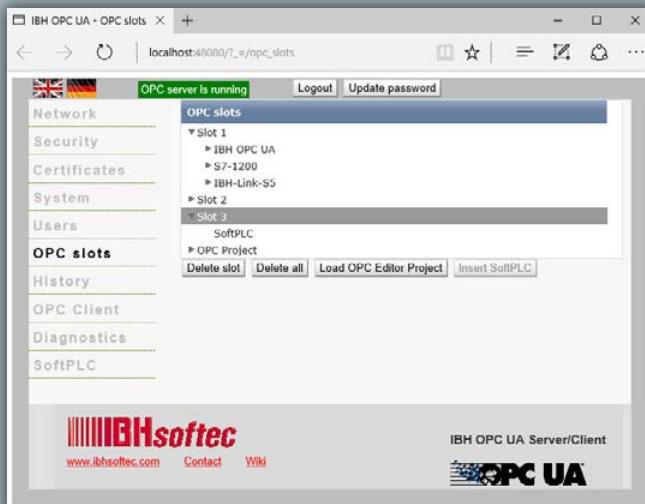


- ▶ OPC UA Server for easy connection to MES, ERP and SAP systems & visualizations
- ▶ OPC UA Client functions for data exchange between different OPC UA Servers
- ▶ Integrated SoftPLC for data preprocessing
- ▶ 2 Ethernet Ports with Firewall for clean separation of machine and supervision level
- ▶ 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](http://www.ibhsofttec.com/IBH-OPC-UA-IoT2040-Eng)

# **IBH OPC UA Server/Client**



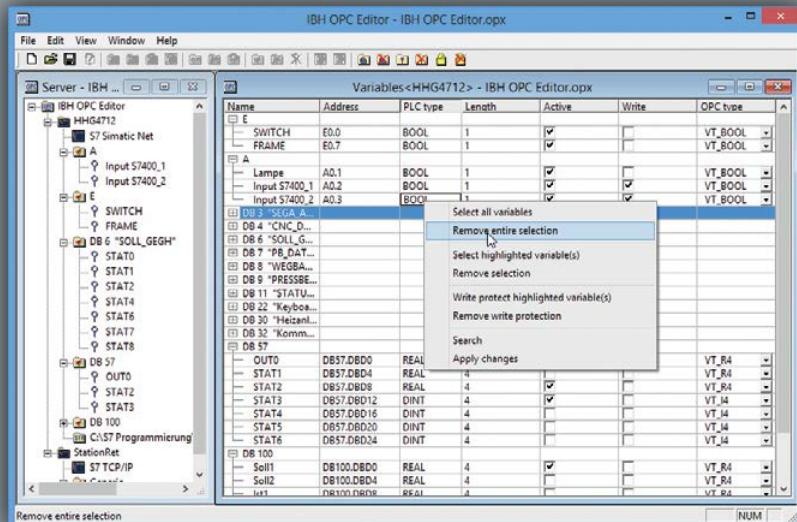
- ▶ OPC UA Server for easy connection to MES, ERP and SAP systems and visualizations
- ▶ OPC UA Client functions data exchange between different OPC UA Servers
- ▶ Integrated SoftPLC for data preprocessing
- ▶ Scalable security levels through exchange of digitally signed certificates
- ▶ Connection to 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](http://www.ibhsofttec.com/IBH-OPC-UA-Server-Eng)**

# OPC Server

**Product number #1180**  
**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 IBHsofttec 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.ibhsofttec.com/IBH-OPC-Server-Eng](http://www.ibhsofttec.com/IBH-OPC-Server-Eng)

# IBH Link S7++



The screenshot shows a web browser window titled "IBHLink S7++". The main header features the "IBHsoftec" logo and the product name "IBHLink S7++". Below the header, there's a small image of the hardware module. The page contains several sections of information:

- Connected PROFIBUS Devices:**

Address	Status	Type	Manufacturer
► 1	M ?	---	---
► 2	M	6GK7 342-5DA00-0XE0	---
► 3	S	IL PB 8K DP/VI (DIP8)	Phoenix Contact
▼ 4	M	6E57 151-8AB01-0AB0	Original Siemens Equipment
- S7 Diagnostics:**

Serial number	S C-B3WE94862011
Station name	IM151 PN/DP Demo Project
Module name	IM151-8 PN/DP CPU
Plant designation	Demonstration
Location designation	Development dept.
Operating mode	RUN
Module time	Monday, 25. Januar 2021 12:59:40
Diagnostic buffer	Event 5/10
- Mode transition from STARTUP to RUN**  
Saturday, 30. Januar 2021 11:33:40
- Startup information**
  - Time for power up 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: 65)
- Event entering state**

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](http://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.ibhsofttec.com/IBH-Link-S7-PP-HS-Eng](http://www.ibhsofttec.com/IBH-Link-S7-PP-HS-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.ibhsofttec.com/IBH-Link-S5-PP-Eng](http://www.ibhsofttec.com/IBH-Link-S5-PP-Eng)**

# S7/S5-Interface

## 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](http://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](http://www.ibhsoftec.com/IBH-USB-S5-Adapter-Eng)

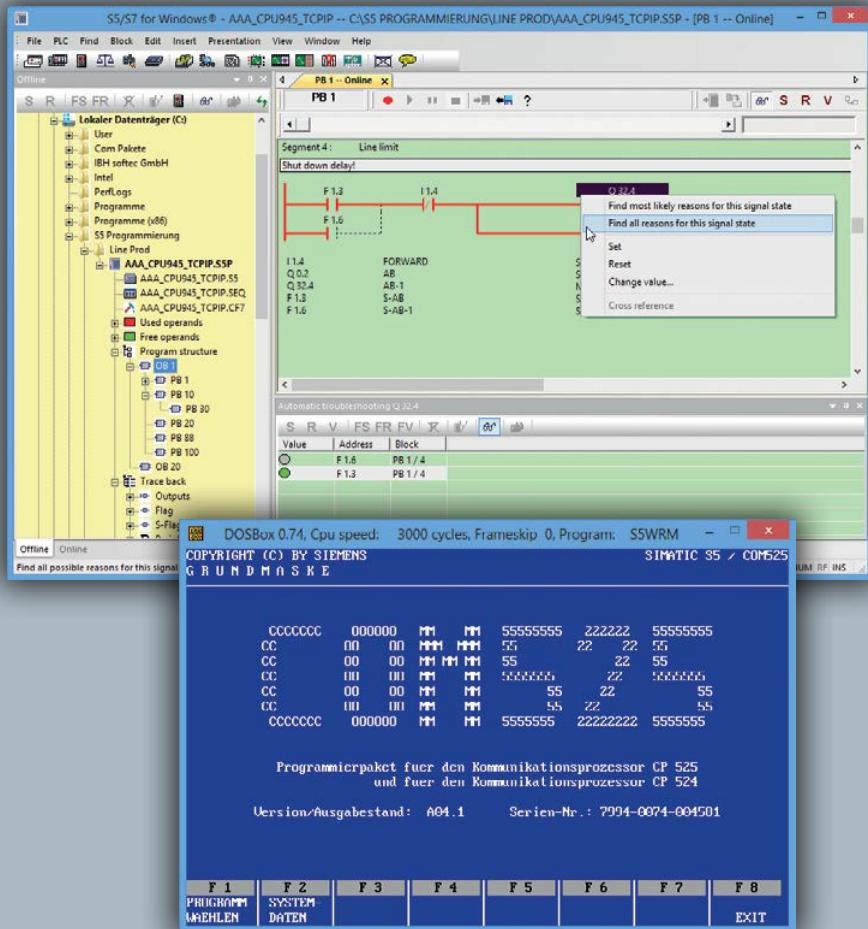
## IBH S5-Current loop converter #2020

- ▶ For a serial connection between a PLC and a S5-PLC
- ▶ Fits the following PLCs: 90U, 95U, 100U, 101U, 115U, 135U und 155U



Copyright: OsciCAM is a registered trademark of IBHsoftec Gesellschaft für Automatisierungstechnik mbH. Windows is a registered trademark of Microsoft Corporation. LOGO! SINUMERIK, SIMATIC, S7-200, S7-300, S7-400, S7-1200, S7-1500, SINEC, TIA, CP 343, CP 443, SIEMENS LOGO!, HMI and STEP are registered trademarks of der Siemens Aktiengesellschaft Berlin und München. AS-Interface AS-Interface is a registered trademark of Verein zur Förderung busfähiger Interfaces für binäre Aktuatoren und Sensoren e.V. CANopen is a registered trademark of CAN in AUTOMATION - International Users and Manufacturers Group e.V. Sercos is a registered trademark SERCOS International e.V. EtherCAT and TwinCAT are registered trademarks of Beckhoff Automation GmbH. NetX is a registered trademark Hilscher Gesellschaft für Systemautomation mbH. PACTware is a registered trademark PACTware Consortium e.V. FieldCare is a registered trademark Endress + Hauser Process Solutions AG. TeamViewer is a registered trademark TeamViewer AG. MELSEC IQR, FX6, QnA and L Serie are registered trademarks of Mitsubishi Electric Corporation. Controllogix and Compactlogix are registered trademarks of Rockwell Automation, Inc. © Song about summer - adobe stock.com, © Natalya Hora - adobe stock.com

# S5 for Windows®

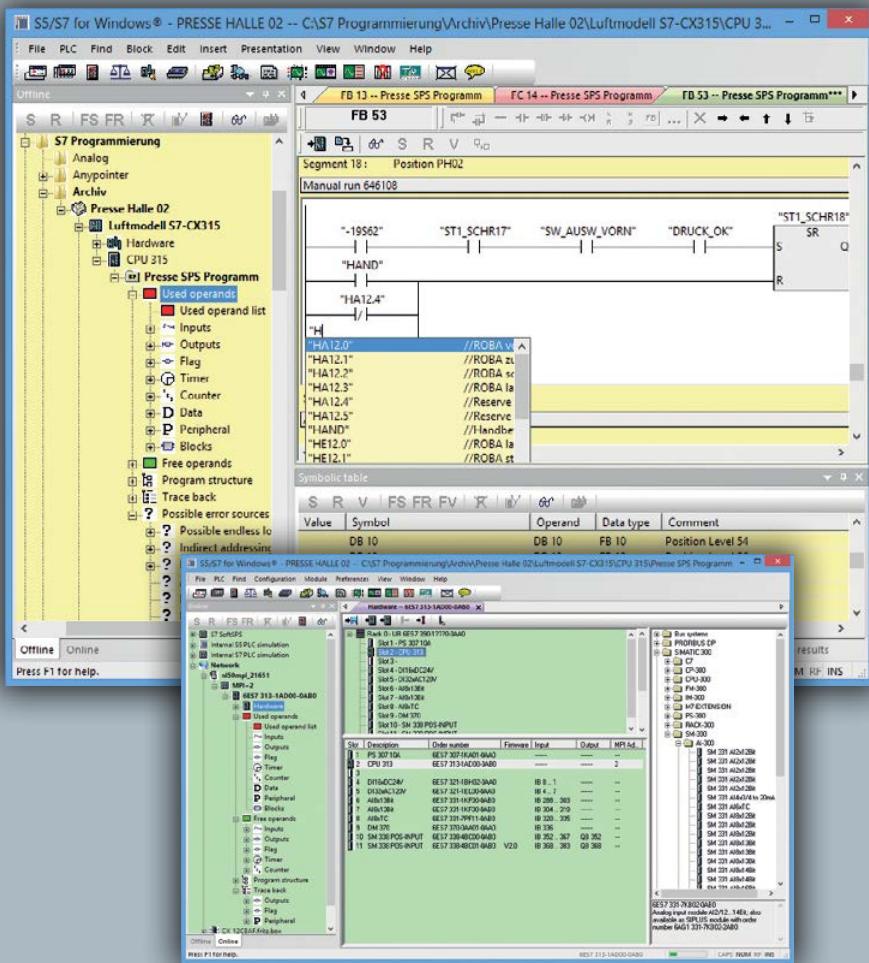


[www.ibhsoftec.com/S5W-Eng](http://www.ibhsoftec.com/S5W-Eng)

## **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®

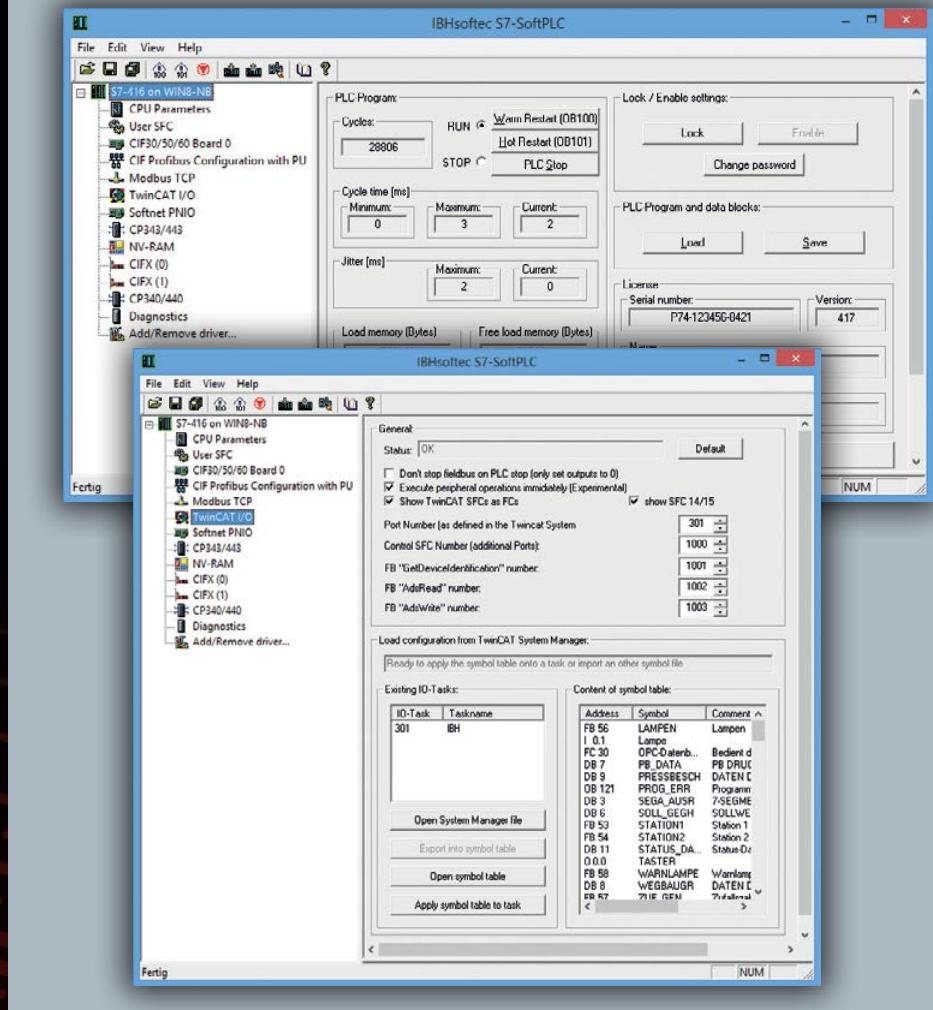


[www.ibhsoftec.com/S7W-Eng](http://www.ibhsoftec.com/S7W-Eng)

## 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
- ▶ 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
- ▶ Driver for Siemens USB S5/S7 Prommer available

# SoftPLC S7-315/S7-416



[www.ibhsofttec.com/SoftPLC-416-Eng](http://www.ibhsofttec.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

### Supported Fieldbus systems:

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



[www.ibhsofttec.com/SoftPLC-945-Eng](http://www.ibhsofttec.com/SoftPLC-945-Eng)

# International Distributors

[www.ibhsoftec.com/Distributor-Eng](http://www.ibhsoftec.com/Distributor-Eng)



	<b>Australia</b>
LS Systems Pty. Ltd. Tomago NSW 2322 Tel. +61 2 4964 8848 Fax +61 2 4964 8877	
ZI-ARGUS Pty. Ltd. Silverwater NSW 2128 Tel. +61 280 903 630 Fax +61 280 903 649	
	<b>Austria</b>
ESA Elektro Automation 3322 Viehdorf Tel. +43 7472 63098 Fax +43 7472 63098 20	
	<b>Azerbaijan</b>
Famaga Group 1005 Baku Tel. +994 51 651 18 38	
	<b>Belgium</b>
Relex NV / SA 1731 Zellik Tel. +32 248248 48 Fax +32 248248 49	
	<b>Brazil</b>
Orkata Informática 09726 São Bernardo Tel. +55 11 412 56088 Fax. +55 11 412 58811	
	<b>China</b>
Shanghai Vape Ltd. 201200 Shanghai Tel. +86 21 61508196 Fax +86 21 58341766	
	<b>Czech Rep.</b>
Merz s.r.o. 460 01 Liberec Tel. +420 485 100 272 Fax +420 485 100 273	
SIDAT s.r.o. 158 00 Prague Tel. +420 257 187 911 Fax +420 257 187 970	
	<b>Dänemark</b>
Tecsyst A/S 2600 Glostrup Tel. +45 4343 2929 Fax +45 4343 2829	
	<b>Egypt</b>
Mas Trading 11431 Cairo Tel. +202 25242842 Fax +202 25242842	
	<b>Estonia</b>
VIRAVIX 10151 Tallinn Tel. +380 67 1399515	
	<b>Finnland</b>
Klinkmann Automation 00371 Helsinki Tel. +358 9540 4940 Fax +358 9541 3541	
	<b>France</b>
Pantek Automation SA 77700 Marne La Vallée Tel. +33 16463 40 28 Fax +33 16463 83 75	
	<b>Georgia</b>
Famaga Group 0193 Tbilisi Tel. +995 556 871 41 8	

	<b>Great Britain</b>
Drawtrend Ltd. Lancashire FY6 7LD Tel. +44 125 388 2158 Fax +44 125 388 2158	
	<b>Hungary</b>
AD-DA kft 1124 Budapest Tel. +36 1 214 0400 Fax +36 1 214 0400	
	<b>India</b>
SWA SYSTEMS 560078 Bangalore Tel. +91 80 26663652 Fax +91 80 26663652	
	<b>Indonesia</b>
PT TDS Technology West Java 17510 Tel. +62 21 8261 5966 Fax +62 21 4622 8752	
	<b>Ireland</b>
DC Automation Rathfarnham Dublin 14 Tel. +353 1 4419187	
	<b>Italy</b>
iCon GmbH s.r.l. 39040 Vahrn Tel. +39 0472 2009 70 Fax +39 0472 2009 62	
	<b>Japan</b>
Eifer Co.,Ltd. 323-0822 Tochigi Tel. +81 285377 005 Fax +81 285377 573	
	<b>Malaysia</b>
Intotest Sdn Bhd 75250 Melaka Tel. +60 6 336 122 9 Fax +60 6 336 122 8	
	<b>Namibia</b>
IAE cc 9000 Windhoek Tel. +264 61 30 53 13 Fax +264 81 12464 10	
	<b>Netherlands</b>
Digitron Electronics 8734 GP Easteren Tel. +31 6 22012036 Fax +31 847 580692	
	<b>New Zealand</b>
Horizon Technology Ltd. Albany, Auckland Tel. +64 914 0066 Fax +64 914 0055	
	<b>Norway</b>
Autic System A/S 3110 Tonsberg Tel. +47 333 009 50 Fax +47 333 009 55	
	<b>Poland</b>
ENCON 54-620 Wrocław Tel. +48 71 793 64 07 Fax +48 71 793 64 08	
	<b>MAGSTERON</b>
52-015 Wrocław Tel. +48 71 719 90 18 Fax +48 71719 90 19	
	<b>STERCONTROL</b>
53-238 Wrocław Tel. +48 717 1990 09 Fax +48 717 1990 11	
	<b>Russia</b>
Famaga Group Moskau Tel. +7 495 268 04 80 Fax +7 495 936 96 06	
	<b>Singapore</b>
TDS Technology 729493 Singapur Tel. +65 6366 1661 Fax +65 6362 1661	
	<b>Slovakia</b>
ControlSystem s.r.o. 977 01 Brezno Tel. +421 48 61115900 Fax +421 48 6111891	
	<b>Slovenia</b>
SMM proizvodni sistemi 2000 Maribor Tel. +386 2 450 23 00 Fax +386 2 450 23 02	
	<b>South Africa</b>
RJ Connect cc Fremdala 2194 Tel. +27 11 781 0777 Fax +27 11 781 7204	
	<b>Spain</b>
AN Consult España 28931 Móstoles Tel. +34 9 1613 0031 Fax +34 9 1613 6506	
	<b>Sri Lanka</b>
IMA Control HAIDL Moratuwa (Colombo) Tel. +94 77 7709675 Fax +94 75551121	
	<b>Sweden</b>
Germatech AB 55473 Jonkoping Tel. +46 3634 6010 Fax +46 3616 8262	
	<b>Switzerland</b>
IndAC AG 4123 Aeschwil Tel. +41 61 481 25 22 Fax +41 61 481 25 23	
	<b>Thailand</b>
PS Union Progress Co. 10230 Ladprao Tel. +662 931 19945 Fax +662 931 1989	
	<b>Turkey</b>
EMIKON LTD. STI. 34776 Y.Dudullu Tel. +90 216 420 83 45 Fax +90 216 420 83 48	
	<b>Ukraine</b>
VIRAVIX 04116 Kyiv Tel. +380 50 3320444	
	<b>USA</b>
Software Toolbox Inc. Matthews, NC 28105 Tel. +1 704 849 2773 Fax +1 704 849 6388	

**IBHsoftec**