

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 Firewal → clean separation of machine and supervision level

BHsofter

- 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

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Product number #3200

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	tec Contact			IBH Link UA

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



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Product number #3206



A microSD card with the OPC UA server/client with IBHsoftec firewall 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

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Network. Security Certificates System Users OPC slots History OPC client	Cover is running OPC-stars Vision 1 PIBH OPC UA P37-1270 PIBH-Unitx-S5 PSiot 2 Stot 3 SoftPLC POPC Project Delete slot Delete slot Delete slot	te all Load OPC Edit		SomPLC		
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- 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



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Network	SoftPLC Status	SoftPLC Co	anections					
Security	PLC Informations PLC type	6ES7 611-45	800-0YB7					
Coriffication	Slot	3						
System	CPU load part PLC CPU load (%)	12 % ~ 0.00						
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opo alota	OB1 Count	PLC Stop	Newstart (Of	5100)				
History		10320						
OPC dlient	OB1 Time (ms) Minimum	0						
Diagnusiles	Maximum	24038						
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www.ibhaqhec.com								

OPC UA Server/Client for the SIMA-TIC 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.

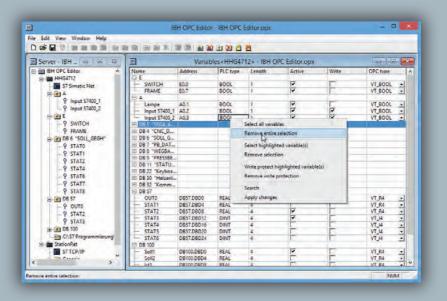
The communication to the S5 and S7 PLC is established over Ethernet. If the PLC has no Ethernet port, our well known gateways IBH Link S7++ or IBH Link S5++ can be used.

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 you PLC-program
- Many different communications like TCP/IP, H1, serial, USB possible ...
- > Full featured demo version available for free



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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



IBH Link S7++



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.



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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

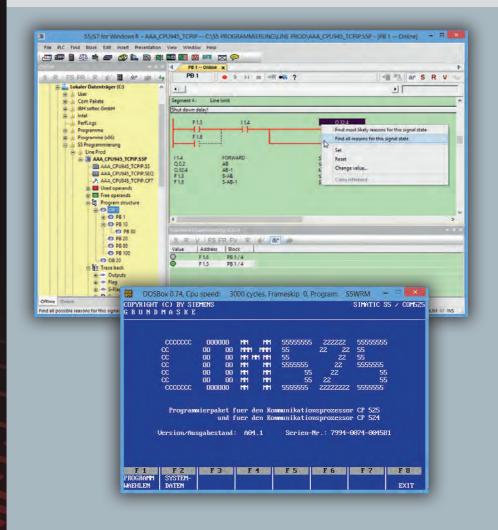
- CommDTM for FDT container available for free
- Master Class 2 for acyclic services (DPV1)
- Read the diagnostic buffer via web browser
- PROFIBUS-Slave Diagnostic
- Online to SIMATIC S5 via SINEC L2
- Configuration via web browser
- IPv6 support
- Configuration via NetPro
- Windows[®] 10 support
- 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



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S5 for Windows®





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