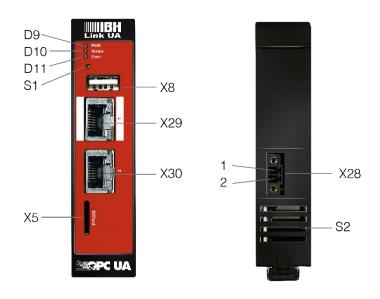
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| Reference | Connection | Device Socket | Mating Connector |
|-----------|-------------------------------|---------------------------|----------------------------|
| X28 | DC supply 1 = +24V 2 = GND | Phoenix MC 1,5 /2-GF-3.81 | Phoenix MC 1,5 /2-STF-3.81 |
| X29 | Ethernet 1 | RJ45 | RJ 45 |
| X30 | Ethernet 2 | RJ45 | RJ45 |
| X8 | USB | USB-A | USB-A |
| X5 | SD Card | MicroSD Slot | MicroSD Card |
| | Reset Button | - | - |
| S1 S2 | Boot Switch | - | - |
| D9 | Power LED (green) | - | - |
| D10 | Status LED (red/yellow) | - | - |
| D11 | Frror LED (red/vellow) | - | - |

Embedded Features

- OPC UA Server for easy connection to MES, ERP and SAP systems and visualizations
 - Custom definable address space
 - Support of data models and methods with Python
 - Certified from the OPC Foundation
- OPC UA Client functions for data exchange between different OPC UA Servers
- OPC Historical Data Access (HDA) In the IBH Link UA, the historical data is organised as a ring buffer in the RAM. If a micro SD card is installed and formatted, the Remanent History function can be activated.
- OPC UA Alarms and Conditions Servers can report asynchronous alarms to clients registered with the server.
- SoftPLC is a software program that emulates a conventional programmable logic controller (PLC). This includes both the functionality and non-functional aspects such as robustness and real-time behaviour.
- Support and analysis control diagnosis, client diagnosis, network diagnostics, system events

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Advanced Features

- Docker Container (ready to use)
 - UA Global Discovery Server is a server that provides central security management and network services.
 - Dianomic FogLamp (Pharma Standard) uses a pluggable modular architecture to easily connect any/all sensors and IIoT devices, manage their data and forward it to historians (like OSIsoft's PI), enterprise systems and the cloud.
 - AWS IoT Greengrass provides a secure way to seamlessly connect your edge devices to any AWS service as well as to third-party services.
 - Node-RED is an open-source programming tool, for connecting hardware devices,
 APIs and online services creatively and easily.
- Docker Container Management with Portainer

Communication Features

- Connection to S7-PLCs over S7 TCP/IP or IBH Link S7++
- Connection to S5-PLCs over IBH Link S5++
- Support for
 - SINUMERIK 840D/840D SL and SINUMERIK ONE
 - o LOGO 8 and LOGO!
 - o Mitsubishi controller MELSEC IQR, FX5, QnA and L series
 - o Rockwell controller Controllogix and Compactlogix
- Modbus connection
- OpenVPN Client and Team Viewer IoT for the management interface level
- OPC UA native or over MQTT cloud connection
- AnyViz Cloud Adapter for the recording and analysing of data.
- NTP synchronisation

Security Features

- OPC UA Security is based on the mechanisms defined by the OPC Foundation. It includes authentication and authorisation, encryption and data integrity through signing.
- Reverse connection in this case, the OPC UA server connects to the OPC UA client. An inverse server connection can be set up if the server is located in an area that is better protected than the client, behind a firewall.
- Firewall to restrict the communication options at the management and control level
- Local user administration with assignment of different authorisations.

Configuration Management Features

- Web interface for setting up and managing all embedded and advanced features
- Convenient configuration with the freely available IBH OPC UA Editor (no program changes required in the PLC)
- SoftPLC projects with TIA Portal and S7 SIMATIC Manager
- Firmware updates freely available (all updates undergo the test according to the OPC foundation specification)

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Technical Data

| Electrical Data | | | | |
|------------------------|--|--|--|--|
| Power supply voltage | min. 12 VDC (-10 %) typ. 24 VDC max. 36 VDC (+10 %) | | | |
| Power consumption | min. 3 W max. 24 W | | | |
| Hardware Specification | | | | |
| CPU type | NXP i.MX 8M mini Quad-Core Cortex-A53 + Cortex-M4, max. 1,8 GHz (A53 core) / 400 MHz (M4 core) | | | |
| RAM | 4 GB | | | |
| eMMC | 8 GB | | | |
| Ethernet | 2x 10/100/1000 Mbit/s | | | |
| USB | USB 2.0 | | | |
| Mass storage | microSD card slot, storage size max 256 GB (evaluated), class10 | | | |
| Additional features | TPM chip, Temperature sensor | | | |
| RTC | GoldCap for real-time functionality | | | |
| | | | | |
| Software Specification | | | | |
| Operating system | Linux (Yocto) | | | |
| Environmental Data | | | | |
| Storage temperature | -20 °C - +70 °C | | | |
| Operating temperature | -20 °C - +60 °C | | | |
| Humidity | 10% - 95% non condensing | | | |

