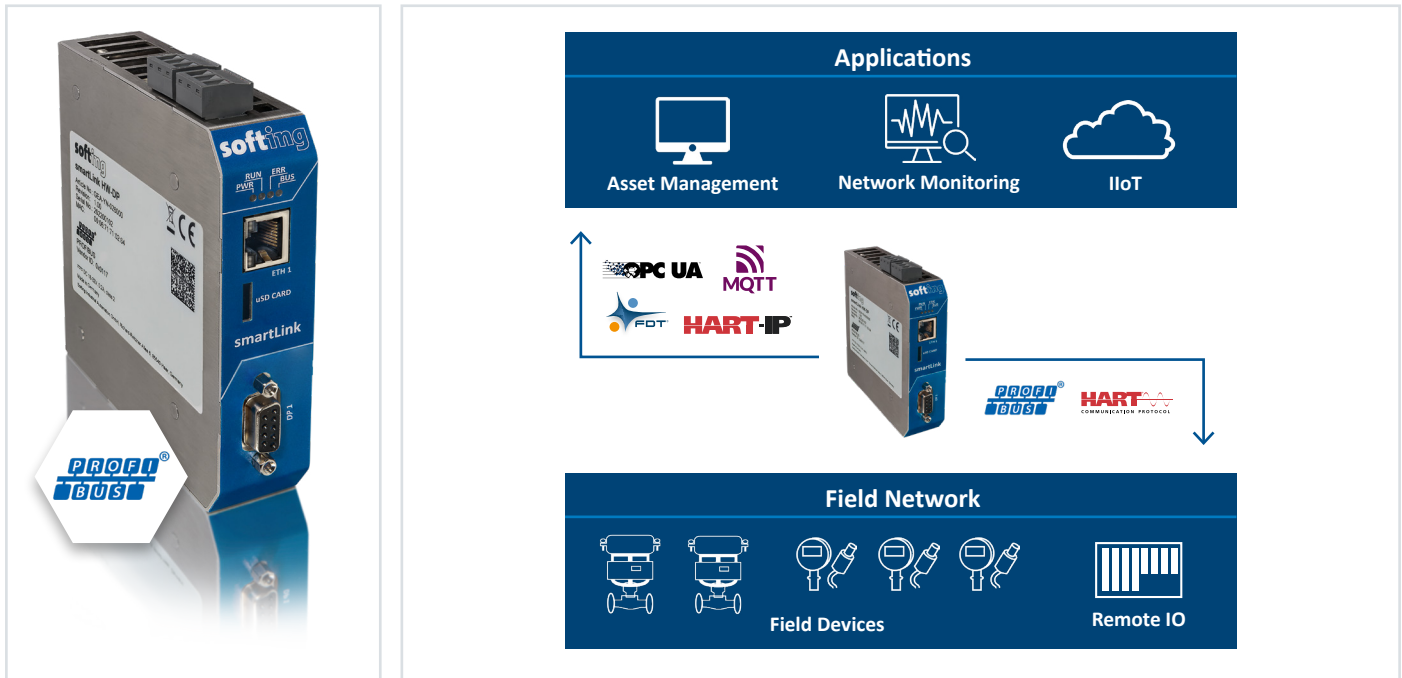


# smartLink HW-DP

Industry 4.0 connectivity for new and existing PROFIBUS DP networks

- PLC Independent access to PROFIBUS DP networks
- Integration without interference with the operation of existing installations
- Compatible with products of leading device manufacturers



## Configuration, Parameterization and Plant Asset Management Using Standard Industry Tools

- Independent of configuration tools
- Centralized and time-saving parameterization of PROFIBUS and HART field devices directly from the control room using HART IP and HART over PROFIBUS
- Access from Plant Asset Management applications for field devices configuration based on FDT / DTM and EDDL standards (acyclic master)

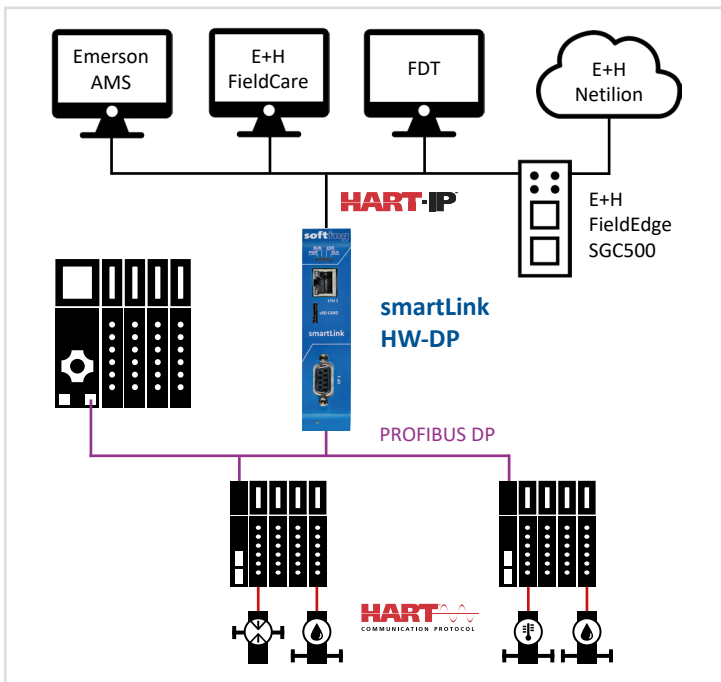
## Ethernet Access Point to PROFIBUS DP

- Provides 2<sup>nd</sup> channel to access the field devices
- Acts as PROFIBUS DP master class 2
- Support of one PROFIBUS DP segment

## Key Component for Transition to State-of-the-Art Technology

- Re-use of existing PROFIBUS segments without requiring modification
- Access to cyclic and acyclic data via HART-IP and OPC UA

## Asset Management and Parameterization of HART Devices



### Configuration, Parameterization, Plant Asset Management

- Secure, standardized access to devices
- Parallel to and independent of the controller

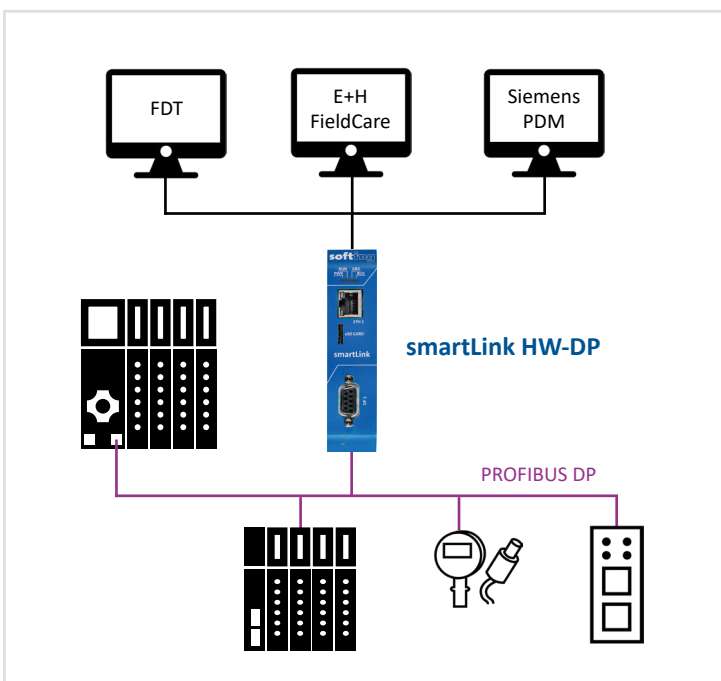
### Inexpensive and low-risk integration

- Connection of a large number of HART devices without rewiring the devices
- Use of existing infrastructure using „HART over PROFIBUS“
- Large number of supported Remote IOs

### Compatible with established standard applications

- Uses HART-IP as standard application protocol
- Proven and tested

## Asset Management and Parameterization of PROFIBUS Devices



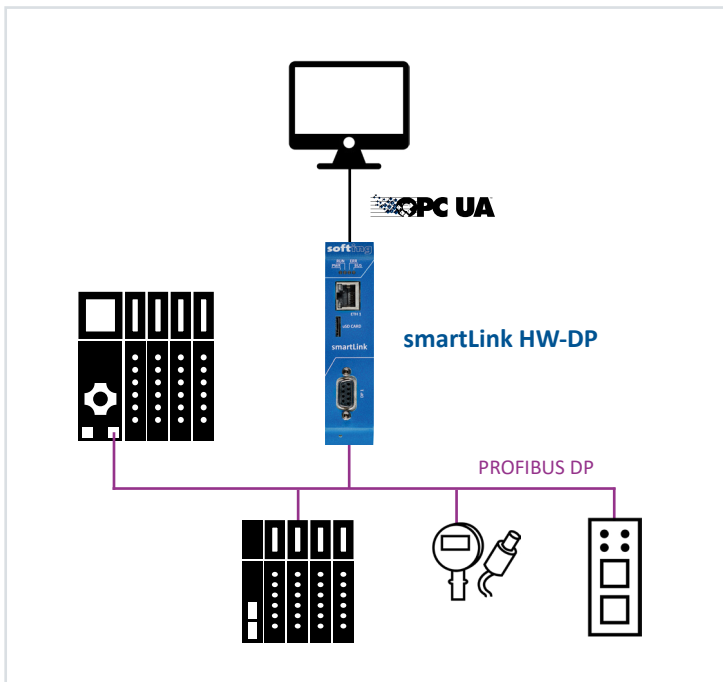
### Configuration, Parameterization, Plant Asset Management

- Secure, standardized access to devices
- Parallel to and independent of the controller

### Compatible with established standard applications

- Drivers available for FDT and Siemens PDM
- Proven and tested

## Direct Access to Process Data from PROFIBUS Networks



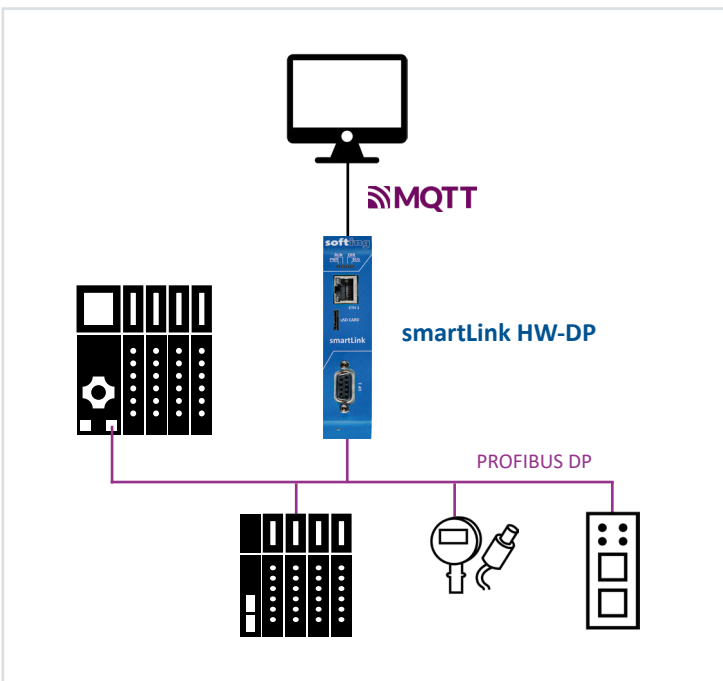
### Capturing process data directly from the network

- Live provision of all process data for further use in typical Industry 4.0 applications such as data analytics
- Collecting data directly from the network, replacing the need to access the controller
- No intervention in the running process

### Secure provision of data using OPC UA

- State-of-the-art transmission method in industrial networks
- Also for several parallel accesses

## Asset Monitoring and Diagnostics in PROFIBUS Networks



### Complete inventory of the entire network

- I&M data from all connected devices
- Automated live queries without configuration

### Secure provision of data using MQTT

- State-of-the-art transmission method for cloud connectivity
- Information model based on OPC UA Companion Specifications for PROFINET

### Health monitoring of all connected devices

- Diagnostic messages and status of all bus stations
- Statistics parameters for the entire network

# smartLink HW-DP

## Technical Data

<b>Hardware</b>	Processor	Intel Cyclone V SoC with dual-core ARM Cortex-A9
	Status LEDs (Gateway)	PWR, RUN, ERR, BUS
	Real-Time Clock	Real-Time clock with buffering, setting the time via browser or by NTP server (buffer time depends on conditions such as ambient temperature and duration of use)
<b>Interfaces</b>	Ethernet	1 x IEEE802.3 10BASE-T/100BASE-TX/1000BASE-T, Connector: RJ45
	PROFIBUS DP	1 x Segment with RS485 Physical Layer, Connector: 9-pin Sub-D socket
<b>Supported</b>	Communication Protocols	HART-IP, PROFIBUS DP
	PROFIBUS Remote IOs	<p><b>Siemens:</b> ET 200SP: 155-6BU01-0CN0 ET 200iSP: 152-1AA00-0AB0 ET 200M: 153-2BA10-0XB0</p> <p><b>ABB:</b> S800: CI801, CI840, CI840A S900: CI920N, CI920S</p> <p><b>Pepperl+Fuchs:</b> LB: LB8105, LB8106, LB8109 FB: FB8206, FB8209</p> <p><b>R.Stahl:</b> iS1+: CPM 9440/15-01-11</p> <p><b>Turck:</b> BL20: BL20-E-GW-DP, BL20-GW-DPV1 excom: GDP 1,5 <b>WAGO:</b> I/O System 750: 750-333, 750-833</p>
	HART IO Modules	<p><b>Siemens:</b> ET 200SP: 134-6TD00-0CA1, 135-6TD00-0CA1 ET 200iSP: 134-7TD00-0AB0, 135-7TD00-0AB0, 134-7TD50-0AB0, 138-7FA00-0AB0 ET 200M: 332-8TF01-0AB0, 331-7TF00-0AB0, 331-7TF01-0AB0, 331-7TB00-0AB0, 332-8TF00-0AB0</p> <p><b>ABB:</b> S800: AI815, AO815, AI845, AO845A, AI895, AO895 S900: AI930N, AO930N</p> <p><b>Pepperl+Fuchs:</b> LB: LB3002, LB3102, LB3103, LB3105, LB4002, LB4005, LB4102, LB4105, LB3005A2, LB3006A, LB3106A, LB4106A, LB7104A FB: FB3202B1, FB3202B2, FB3205B2, FB3205B3, FB3302B2, FB3305B2, FB4202B2, FB4202B3, FB4205B2, FB4205B3, FB4205C2, FB4302B2, FB7204B3, FB7304B3</p> <p><b>R.Stahl:</b> iS1+: AIM 9461/12-08-11, AOM 9466/12-08-11, AUM 9468/32-08-11</p> <p><b>Turck:</b> BL20: BL20-2AIH-I, BL20-2AOH-I excom: AIH40Ex, AOH40Ex <b>WAGO:</b> I/O System 750: 750-484, 75x-842</p>
	HART-IP Applications	Emerson AMS Device Manager V14.1.1, V14.5 Endress + Hauser Netilion (FieldEdge SGC500)
	FDT Applications	PACTware, Endress + Hauser FieldCare
	<b>Physical Properties</b>	Dimensions (H x W x D)
	Weight	Approx. 430g
	Power Supply	18 VDC ... 32 VDC; SELV/PELV power supply mandatory Typical input current: 200 mA, maximum input current: 1 A (allowing for in-rush current at switch-on)
	Typical Power Loss	5 W
	Operating Temperature	-40 °C ... +65 °C (see detailed mounting description in user manual)
	Storage Temperature	-40 °C ... +85 °C
	Relative Humidity	10 % ... 95 %, non-condensing
	Cooling	Convection, no fan
	Mounting	DIN rail 35 mm
	Protection Class	IP20
<b>Conformity / Standards</b>	CE	Electromagnetic compatibility (EMC) and Restriction of Hazardous Substances (RoHS) EN 61000-6-2 Generic standards - Immunity standard for industrial environments EN 61000-6-4 Generic standards - Emission standard for industrial environments EN 55032 Electromagnetic compatibility of multimedia equipment - Emission Requirements Class A EN 55011 Industrial, scientific and medical equipment - Radio-frequency disturbance characteristics - Limits and methods of measurement Class A EN IEC 63000:2018 RoHS, Assessment to the restriction of hazardous substances
	FCC	FCC 47 CFR Part 15B Section 15.109 (Class A)
	VCCI	VCCI Voluntary Control Council for Interferences by Information Technology Equipment, April 2015

# smartLink HW-DP

## Scope of Delivery

Hardware	smartLink HW-DP
Documentation	On Website

## Order Numbers

GEA-YN-026000	<b>smartLink HW-DP</b>
GEA-YN-026001	<b>smartLink HW-DP 50</b> , Hardware preloaded with licenses for 50 devices
GEA-YN-026002	<b>smartLink HW-DP 100</b> , Hardware preloaded with licenses for 100 devices
GEA-YN-026003	<b>smartLink HW-DP 250</b> , Hardware preloaded with licenses for 250 devices
GEA-YN-026004	<b>smartLink HW-DP 375</b> , Hardware preloaded with licenses for 375 devices
LRA-NN-027004	<b>smartPlus DP</b> , License access to one field device

## Additional Products and Services

DBA-KM-020410	<b>mobiLink</b> – Mobile HART interface
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