SolutionBlock IO-Link-Master

The IO-Link master for a
smooth flow of information.

Product description
SolutionBlock IO-Link-Master

Doing more with less. Or doing more with more?

What is best? Can the SolutionBlock IO-Link master deliver both? Absolutely! We have designed our latest IO-Link master to offer you just that little bit more – in any scenario.

Among others, this means: More flexibility in the fieldbus selection and fewer devices that need to be kept in stock. More convenient data management thanks to the OPC UA server and IODD interpreter and less unnecessary data to the PLC with the moneo|configure plugin.

To fully support daisy chaining, we have equipped the SolutionBlock with an additional IIoT port, thus enabling power, fieldbus and IT communication transfer from master to master. The aim is to avoid complex cabling.

These are the SolutionBlock highlights explained in less than 10 sentences. For more information, please follow this link **ifm.com/solutionblock**

Product benefits

Why the SolutionBlock IO-Link master?

**Flexibility thanks to
multiprotocol capability**

Reduced stock-keeping due to the
possibility of using any fieldbus model.

**Made for
field use**

Robust housing with high
protection rating (IP67 / IP69K).

**Reduced cabling
thanks to daisy chaining**

Clever current distribution via
the parallel connection of modules.

**Error-free and
easy digitalisation**

8 ports for a direct connection
of sensors and actuators
(IO-Link devices).
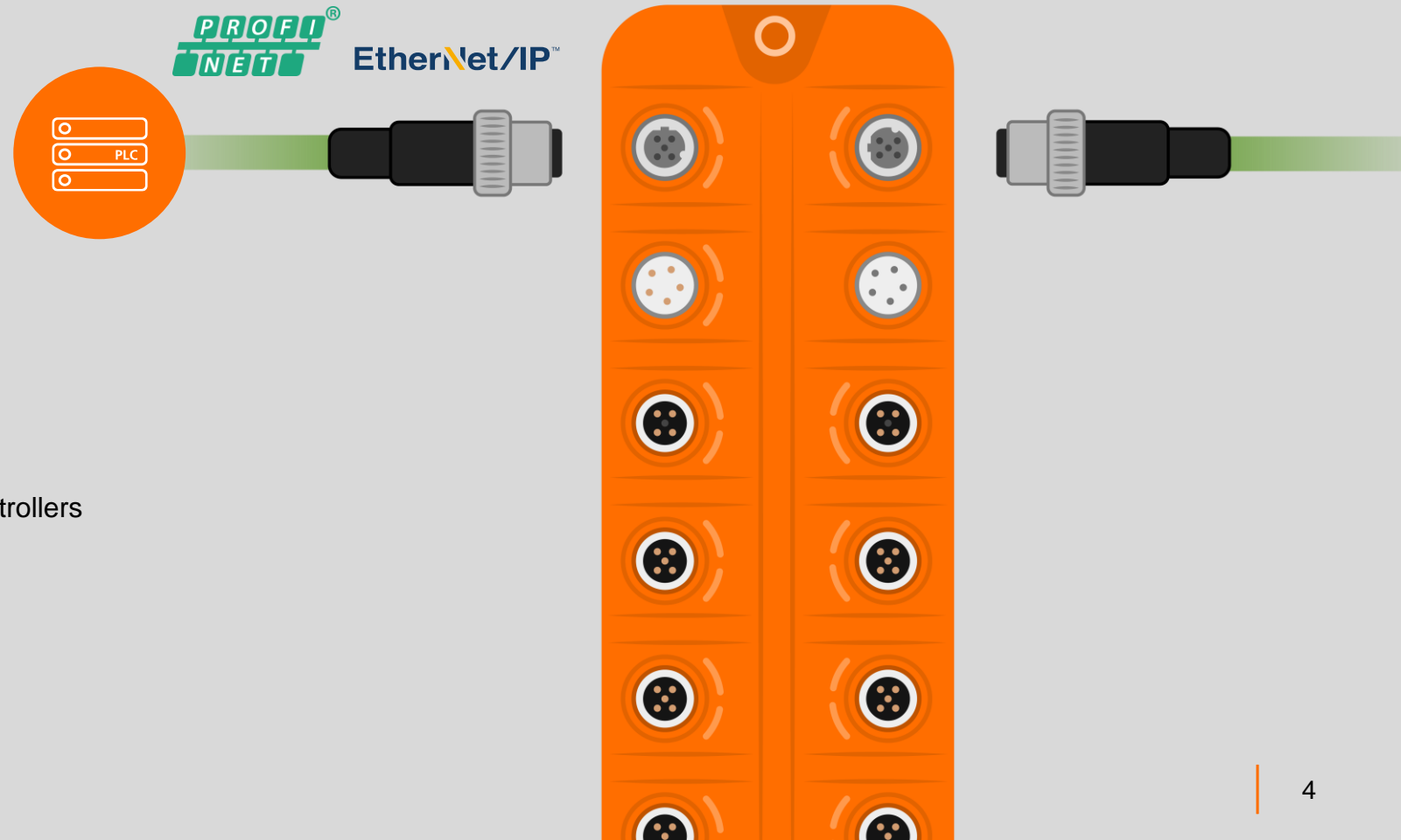
IO-Link master gateway
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Multi-protocol capability that provides flexibility in the choice of controller

Challenge

- As users rely on different controllers, this may oblige them to stock various IO-Link masters to cover the different fieldbus requirements.

Solution / benefits

- One SolutionBlock IO-Link master for all controllers
- Fewer variety of articles to stock
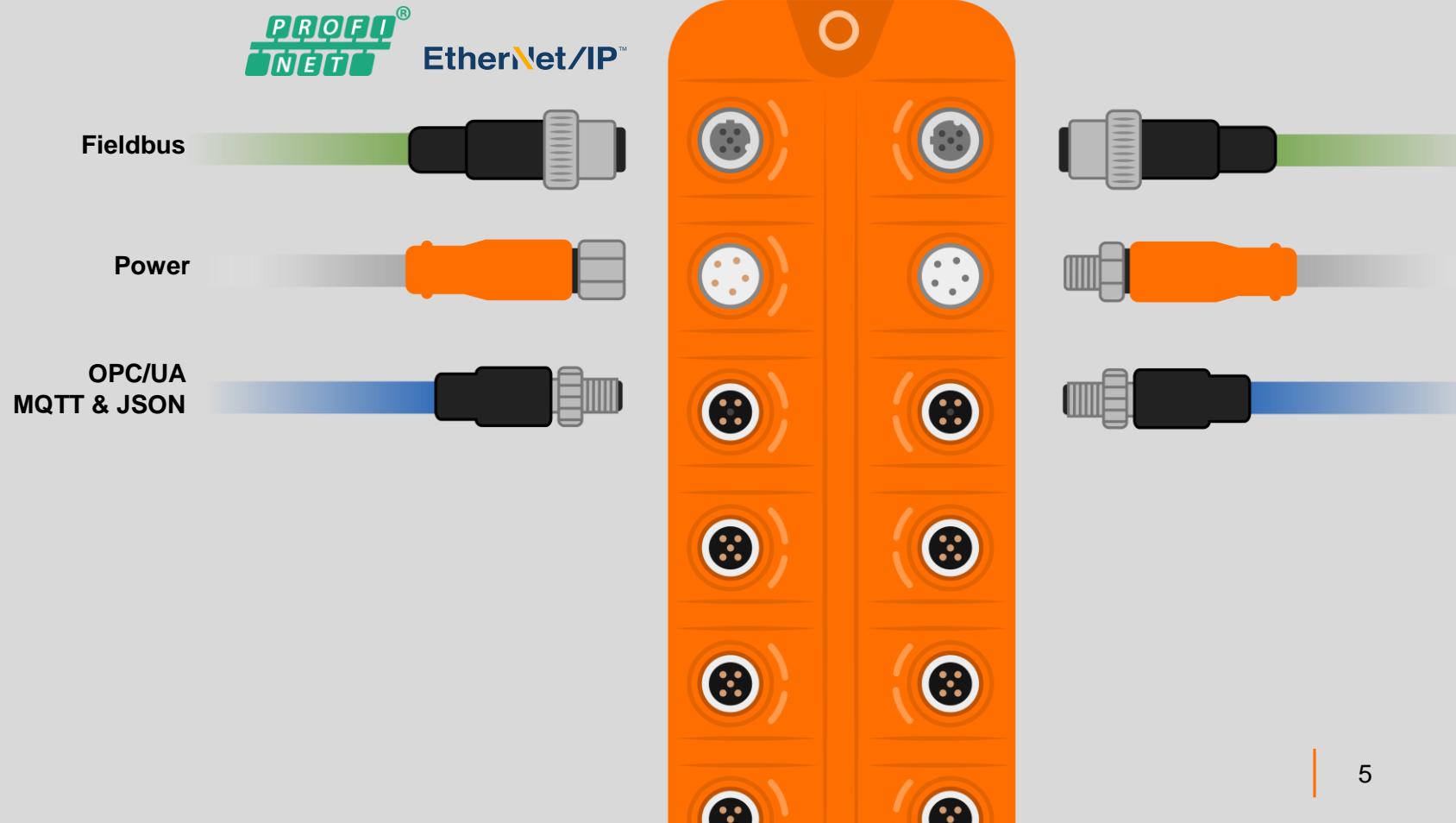- Standardised system topology and articles for different controllers

Daisy chain functionality

Challenge

- Especially in large systems, complex cabling can cause an increase in the installation effort and costs.

Solution

- Fieldbus, power and IIoT connectivity can be daisy-chained from master to master. This reduces the cabling and costs.
- The SolutionBlock is the first IO-Link master on the market to be equipped with 2 IIoT ports.

Fieldbus

Power

OPC/UA MQTT & JSON

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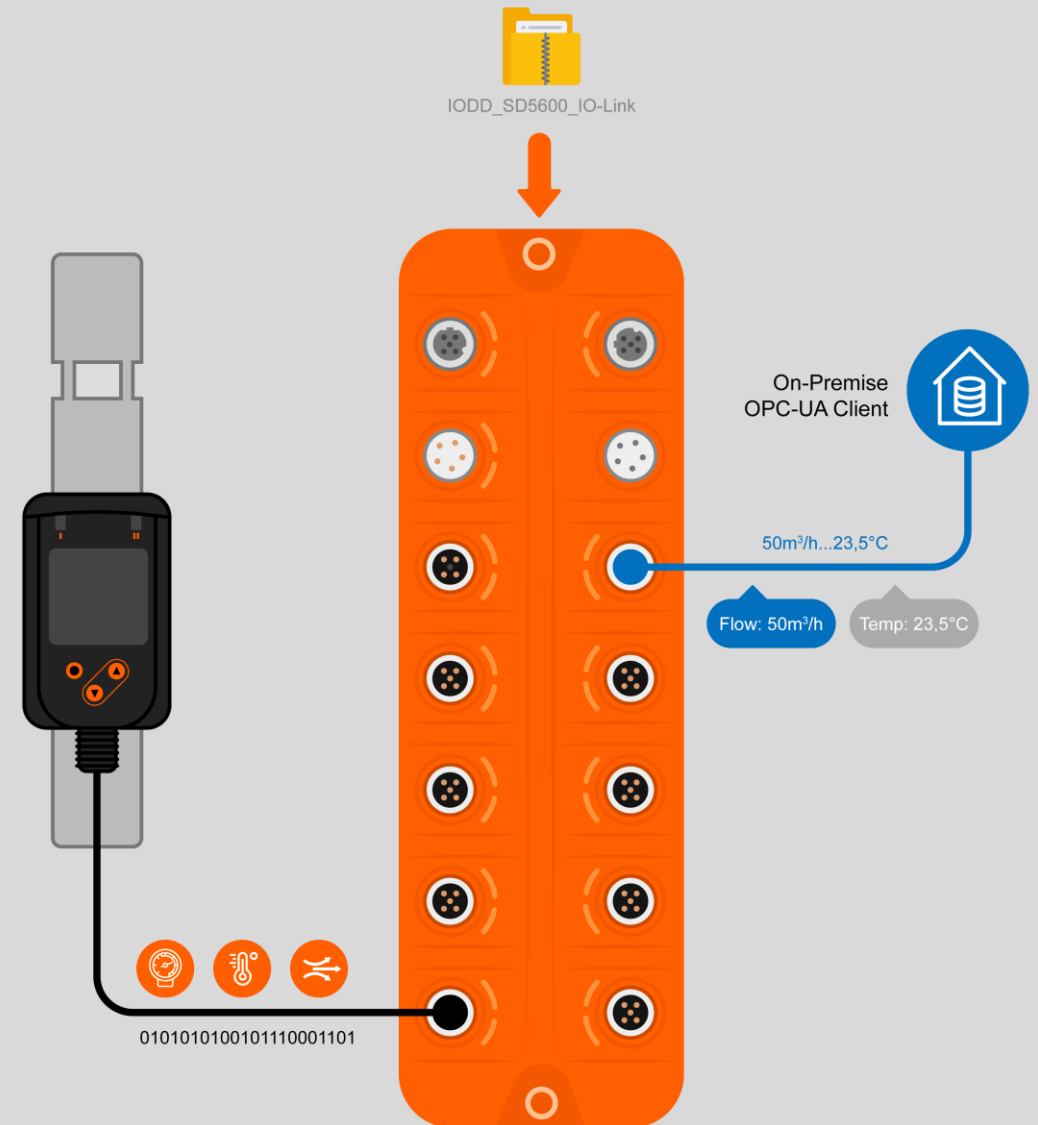
Product functions
Easy IIoT connection

Challenge

- Sensors send their data to the IT level as bytes. To analyse the latter, the user must first convert them. This takes a lot of time.

Solution / benefits

- An OPC UA server and an IODD interpreter are integrated into the SolutionBlock IO-Link master.

  - Sensor data are converted into readable information directly in the IO-Link master.

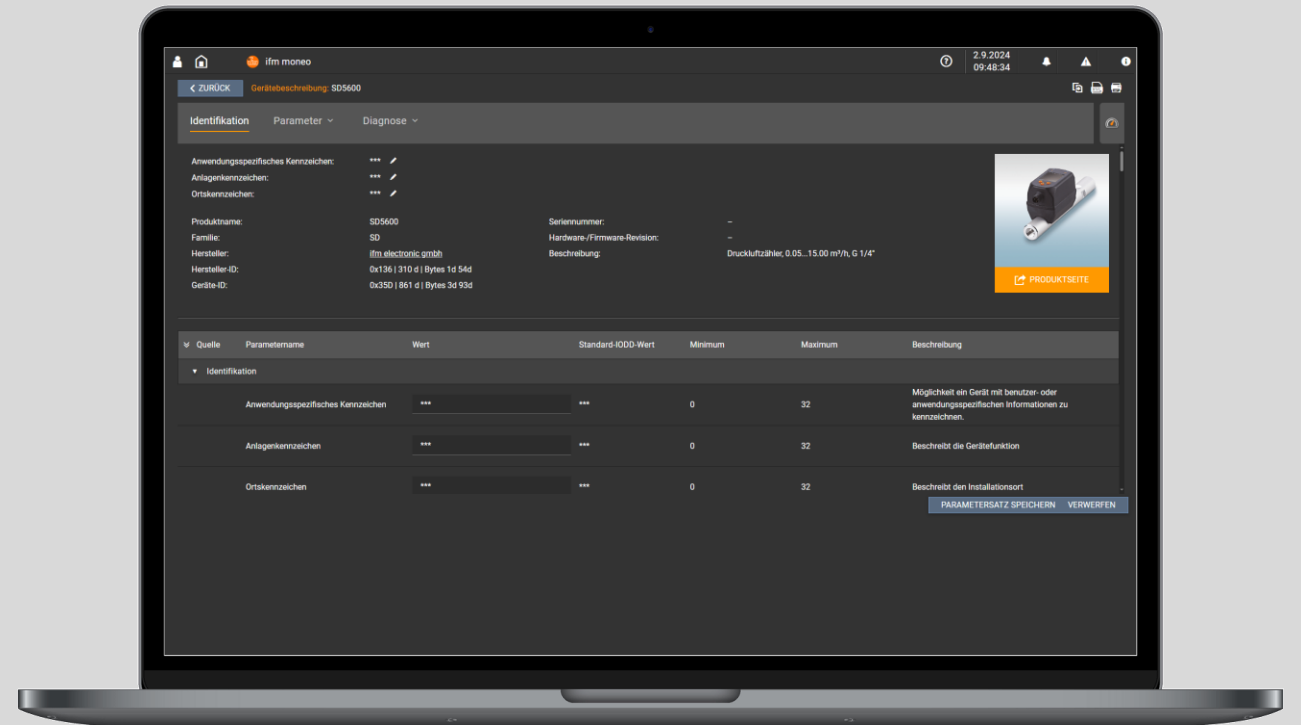 - Software-based data analysis via OPC UA is greatly facilitated.

IODD_SD5600_IO-Link

On-Premise
OPC-UA Client

50m³/h...23,5°C

Flow: 50m³/h   Temp: 23,5°C

0101010100101110001101

Product functions
Easy IIoT connection

Challenge

- IO-Link sensors provide a wide range of process values

- The amount of data is often larger than it needs to be

- Much of the data is not essential

Solution / benefits

- The moneo|configure plug-in allows the selection and reduction of cyclic data from IO-Link devices.

- The IO-Link master (SolutionBlock) receives process values from the IO-Link devices, filters the data and transmits it to the controller.

- The result is a significant reduction in cyclic data communication on the fieldbus.

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Good to know

Multiprotocol-capable IO-Link master with integrated OPC UA server

Perfect for sensors with various process data

More system control capacity is available (data reduction).

Proven materials for industrial and hygienic applications

Ingress resistance is guaranteed thanks to ecolink technology.

Additional IIoT port

The daisy chain functionality provides for reduced cabling.

Reduction of workload and time required

The module can be configured using the moneo|configure software.

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