IO-LINK DEVICES WITH REAL-TIME ETHERNET
OPTIMIZED TECHNOLOGY PLATFORM WITH PRE-QUALIFIED SOFTWARE ECOSYSTEM

netFIELD Device technology platform connects IO-Link sensors – wired or wireless – with demanding Real-Time Ethernet networks. For configuration and diagnostics an integrated OPC UA server with IO-Link companion profile is used. It combines established netX 90 technology with Hilscher’s new netIOL chip – an intelligent IO-Link transceiver with additional diagnostics to detect plant errors.

IO-LINK COMMUNICATION FOR OEM BRANDLABELING

Network Connectivity
- Based on proven HILSCHER netX technology

Configuration & Diagnosis
- Based on OPC UA using IO-Link Companion Profile
- Per webserver or OPC UA via Ethernet
- Alternatively wireless via mobile devices

Intelligent 4-channel IO-Link transceiver
- 32-bit RISC CPU, up to 16 ports cascadable
- 8-port time synchronized communication with 400µs cycle time
- Diagnosis of voltages and currents from each IO-Link pin, on-chip temperature and supply voltage

Modular application firmware
- Configurable runtime including protocol & IO-Link stack, OPC UA & webserver, configuration & OEM management
- Qualified firmware & precertified networks
- Expandable to fit your application
- Firmware download, authentication, IO-Link port configuration and diagnosis via integrated webserver.

Sensor and Device powering
- Up to 16A each for 1L and 2L
- Max. 4A (Pin1) per sensor
- Nom. 2A (DO) per digital output

Alternatively IO-Link wireless module
- TigoMaster 2T SOM from CoreTigo
- Supports up to 16 Wireless devices

FROM CHIPSET VIA MODULE TO BRANDLABELED IP67 DEVICE

netX 90 & netIOL
- Chipset for own designs
- Tested circuit board designs, incl. design package
- Branded software or own application

netRAPID 90 & netIOL
- Embedded module for own designs
- Tested circuit board designs, incl. design package
- Preloaded with software
- Branded software or own application

OEM Circuit Board
- Individual or ready-to-use OEM hardware
- Tested & qualified circuit board
- Preloaded with software
- Branded software or own application

IP67 Brandlabeling
- Ready-to-use IP67 module
- Tested & certified product
- Preloaded with software
- Branded software or own application

Customers profit from an optimized and validated technology platform as well as a pre-qualified software ecosystem and pre-certified protocol stacks.
**BRAND LABELING**
- IP67 MODULE BRANDING
  - brand labeling first IP67 module incl. housing
  - fixed functionality, board lineout & connectors
  - brand labeling module firmware
  - production of IP67 device at Hilscher

**OEM CIRCUIT BOARD ONLY**
- brand label first OEM circuit board, w/o housing
- fixed functionality but customizable board lineout & connectors
- brand labeling module firmware
- production of OEM circuit board at Hilscher
- housing incl. cast resin filling by OEM

**OPTIONAL**
- workshops & more
- certification support
- additional firmware modifications
- Future option: Bluetooth interface

**EMBEDDED**
- MODULE - netRAPID 90 & netIOL
  - preloaded & ready-to-use embedded module for own designs
  - tested circuit board design, incl. design package & schematics
  - basic firmware application as an example
  - production of netRAPID 90 at Hilscher

**CHIPSET - netX 90 & netIOL**
- chipset for own designs
- tested circuit board design, incl. design package & schematics
- design & production by OEM

**OPTIONAL**
- evaluation board & workshops
- sophisticated application example
- certification support
- Future option: Bluetooth interface

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**HEADQUARTER**
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**SOCIAL MEDIA**
Find more information on social media

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**note:** all technical data may be changed without further notice.