



netFIELD
DEVICE

IP67, netX SOCS & netRAPID

100100111001

5 PSI

58°C

IO-LINK DEVICES WITH REAL-TIME ETHERNET

OPTIMIZED TECHNOLOGY PLATFORM WITH PRE-QUALIFIED SOFTWARE ECOSYSTEM

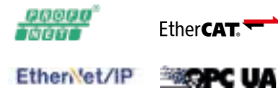
netFIELD Device technology platform connects IO-Link sensors – wired or wireless – with demanding Real-Time Ethernet networks. For configuration and diagnostics an integrated OPC UA server with IO-Link companion profile is used. It

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

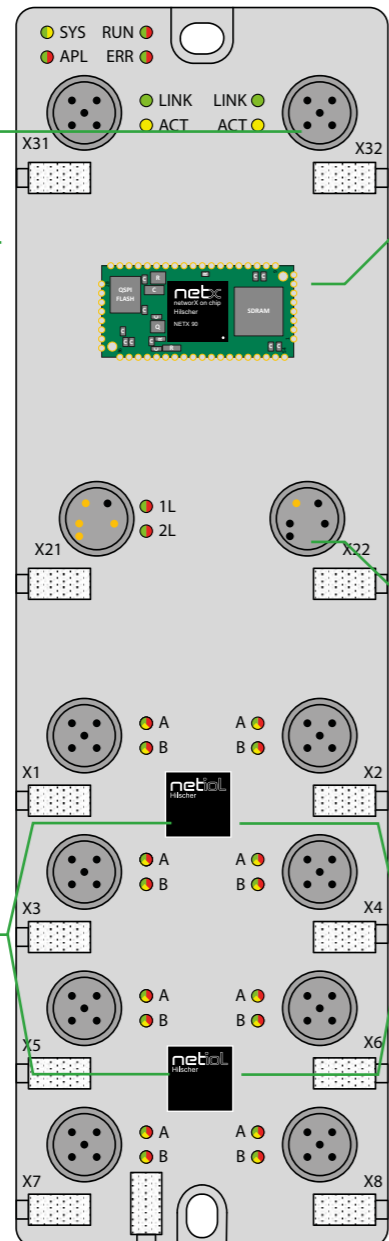


Configuration & Diagnosis

- 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

- 32Bit 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 out

Alternatively IO-Link wireless module

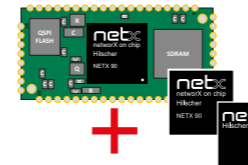
- TigoMaster 2T SOM from CoreTigo
- Supports up to 16 Wireless devices

FROM CHIPSET VIA MODULE TO BRANDLABELED IP67 DEVICE



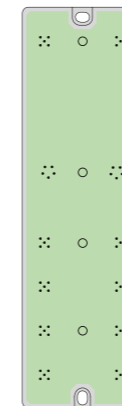
netX 90 & netIOL

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



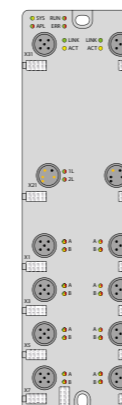
netRAPID 90 & netIOL

- 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.



netFIELD DEVICE TECHNOLOGY PACKAGES

1 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 labeling 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

2 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
- basic firmware application as an example
- design & production by OEM

OPTIONAL

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

3 OEM SPECIFIC

CUSTOMER SPECIFIC IP67 SOLUTION

- based on netFIELD device technology
- OEM specific hardware and software modifications
- production at Hilscher or OEM



IO-Link DI/DO/DIO	DI/DO/DIO	IO-LINK Wireless Master	IO-Link Device (Hub)
IO-Link Master, Digital Input/Output	Digital Input/Output	Wireless IO-Link Master	IO-Link Slave Hub
60mm, 8 ports with M12	30mm, 8 ports with M8	30mm	30mm, 8 ports with M8
PROFINET IO-Device, EtherCAT Slave, EtherNet/IP Adapter	PROFINET IO-Device, EtherCAT Slave, EtherNet/IP Adapter	PROFINET IO-Device, EtherCAT Slave, EtherNet/IP Adapter	-
8 Port IOL-M, Class A 8 Port IOL-M, Class B		Wireless, 2 tracks, 16 channels	IOL-Hub, Class A IOL-Hub, Class B
16 DI, 16 DO, 16 DIO, 8 DIO + 8 DIO	8 DIO, 4 DIO + 4 DIO	-	8 DIO
-25°C ... +70°C	-25°C ... +70°C	-25° ... + 70°C	-25°C ... +70°C
1L: max. 16A 2L: max. 16	1L: max. 16A 2L: max. 16A	-	1L: max. 4A 2L: max. 4A
Sensor supply: max. 4A (Pin1) Digital Out: nom. 2A (DO)	Sensor supply: max 4A (Pin1) Digital Out: nom. 2A (DO)	-	Sensor supply: max. 2A (Pin1) Digital Out: nom. 2A (DO)

Note: All technical data may be changed without further notice.

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