netFIELD APP PROFINET TAP

BROWNFIELD IOT
ENABLEMENT IN 15 MINUTES

5 PSI

ENABLE BROWN-FIELD MACHINERY FOR IOT APPLICATIONS

Equipping brown-field machinery with condition monitoring and data analytics applications allows to get the IoT-benefit out of existing machine installations. The **netFIELD** App PRO-FINET Tap allows extracting machinery process data simply by monitoring the existing network traffic. There is no need to change PLC or machine configuration. It works with any PROFI-NET network, independent of PLC or device vendor.

## EASILY INTEGRATED AND CONFIGURED WITHIN MINUTES.

As their is no need of touching the network or PLC configuration the required integration effort is minimal. The rich configuration app allows importing symbol information from device description files. In a Siemens environment integration is even easier, TIA Portal semantics can be used directly.

IoT-enable your machine within minutes in five simple steps:

1 Lead out existing network traffic via a network TAP (1) device or the mirror port of a switch (2)

2 Automatically read in the PROFINET configuration from a machine startup

3 Add data semantics automatically simply by importing the TIA Portal Engineering project or GSDML device description files

4 Select information of interest from the whole machine process data image interactively in the configuration app

5 Subscribe to MQTT messages in your monitoring or analytics application

(1) TAP = Terminal Access Port, a hardware device which allows mirroring network traffic without interference to existing infrastructure

(2) Many managed Ethernet switches support mirroring net-work traffic streams via switch configuration
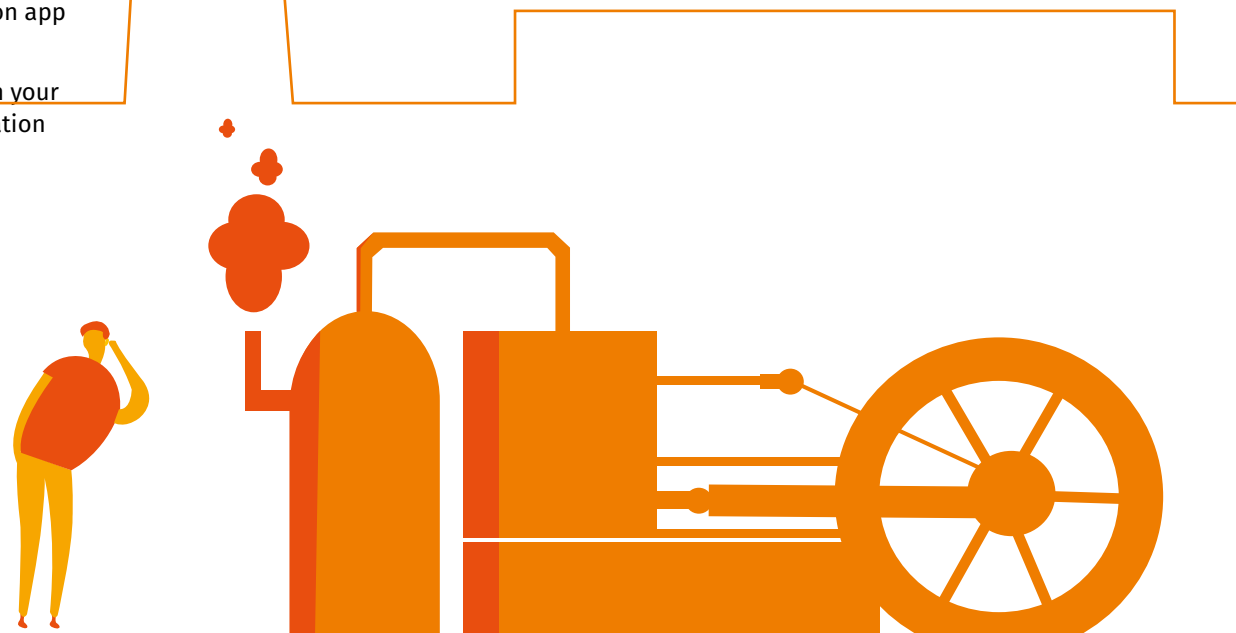
HOW IT WORKS UNDER THE HOOD
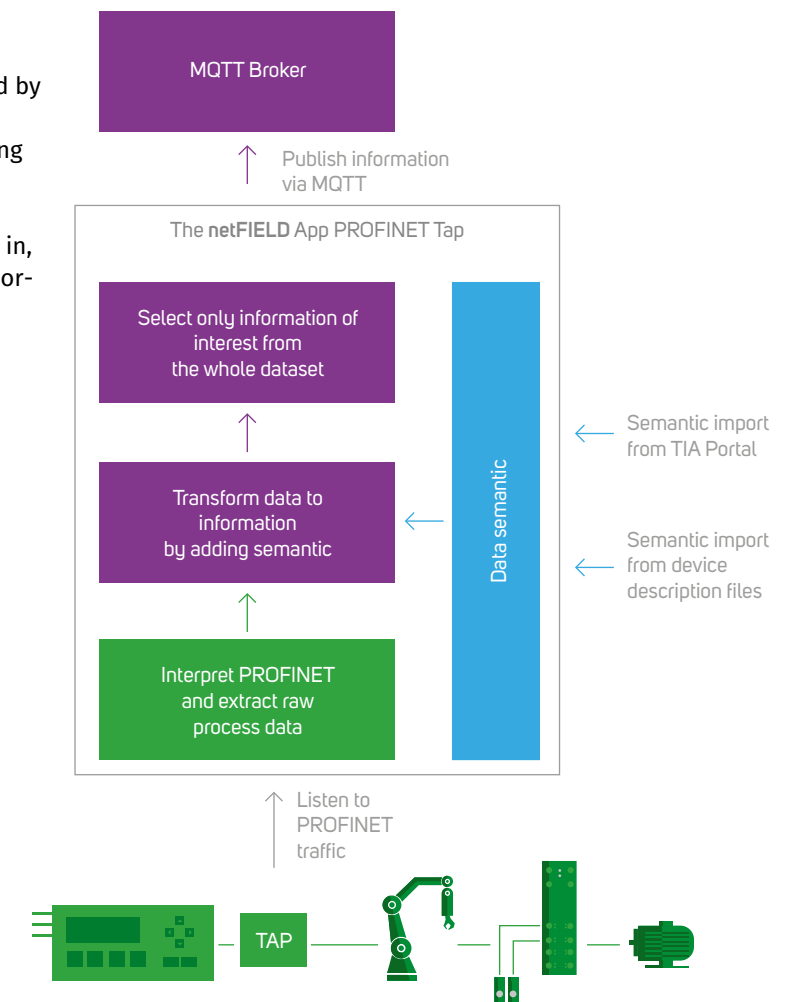
Containerized software
- The **netFIELD** App PROFINET Tap is delivered as a containerized software which allows easy deployment and software management.
- The software container delivers a built-in rich configuration app which can be used easily via a web-browser without the need of installing any additional software tools.

Form data to information
- The extracted raw fieldbus data is automatically enriched by semantics during the capture process.
- The required semantic information can be read in by using AutomationML as interchange format with TIA Portal in a Siemens environment.
- Alternatively, GSDML device description files can be read in, allowing mapping semantic information in any non-vendor-specific environment.
- Of course, it is always possible to "fine tune" semantics manually via the configuration app.

Deep packet inspection with integrated fieldbus intelligence
- The **netFIELD** App PROFINET Tap analyses the existing machine network traffic using deep packet inspection technologies.
- It "understands" the fieldbus protocol by itself and thus does not require you as an end-user to deep-dive into fieldbus technology.
- Due to the listening-only functionality, **netFIELD** App PRO-FINET Tap is absolutely invisible to your existing machine components and thus cannot disturb the existing process.

MQTT Broker

Publish information via MQTT

The **netFIELD** App PROFINET Tap

Select only information of interest from the whole dataset

Semantic import from TIA Portal

Transform data to information by adding semantic

Data semantic

Semantic import from device description files

Interpret PROFINET and extract raw process data

Listen to PROFINET traffic

TAP

There is no need of touching your working machine, nor changing PLC or machine configuration

Automatic PROFINET configuration detection and semantic mapping from TIA Portal or GSDML

Secure by design due to the listening-only functionality

Article	Order Number	Category	Version
netFIELD App PROFINET TAP	1917.007	Data Acquisition	1.0.0

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CONTAINER REVOLUTION

ENABLING THE INTELLIGENT EDGE

THE FUTURE IS INTELLIGENT AND CONTAINERIZED

Hilscher, a leader in industrial communication, has launched a unified IoT technology portfolio and named it **netFIELD**. It includes scalable gateway hardware (**netFIELD** Edge), a secure operating system (**netFIELD OS**), ready-to-use applications for the edge (**netFIELD** Apps), an open REST API standard for connecting with **netFIELD**-based applications and services (**netFIELD** Cloud), and a user-friendly self-service portal (**netFIELD** Portal).

netFIELD is a fully managed service that makes it possible to run workloads at the edge from a central point at scale, bringing intelligence to the edge with a hybrid cloud and edge approach.

INDUSTRIAL IOT SOLUTIONS DO COST MILLIONS
- Why should you reinvent the wheel?
- Join us at the forefront of technology.

With our technology, you pull ahead of your competitors.

CONTAINERS ARE REVOLUTIONIZING CONNECTED IOT DEVICES AND NETFIELD.IO IS THE PERFECT MATCH TO MANAGE AND RUN THEM.

INTELLIGENT EDGE
We solve the data integration challenge by running intelligence at the edge. Deploy Docker containers to your devices. Build your own applications or get our ready-to-use containers.
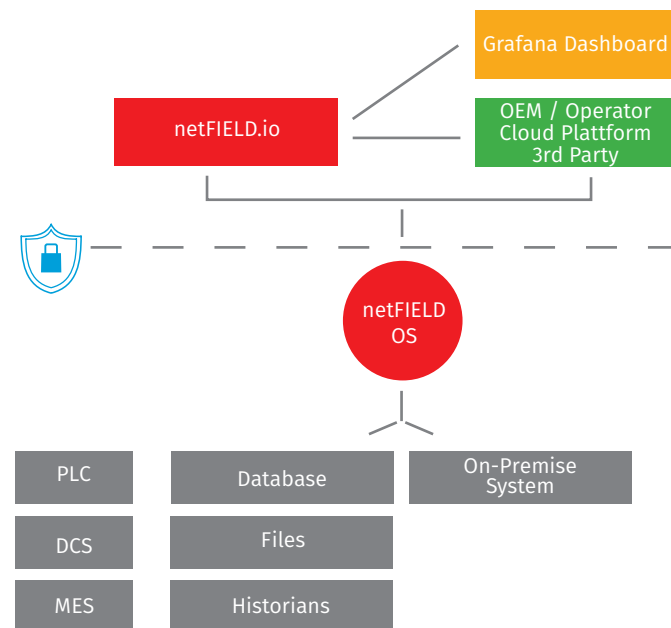
OPEN PLATFORM
Manage your devices from a single-point with end-to-end security, powerful open APIsand SDKs. Use our data storage or streaming pipeline for further data ana-lysis or visualization.

EASY PORTAL
Manage your device fleet with our self-service portal by adeploying containers, updating the operating system or remo-te managing configurations.

FAST DASHBOARD
Quickly focus on the most important aspects of your data using user-defined visualization dashboards.
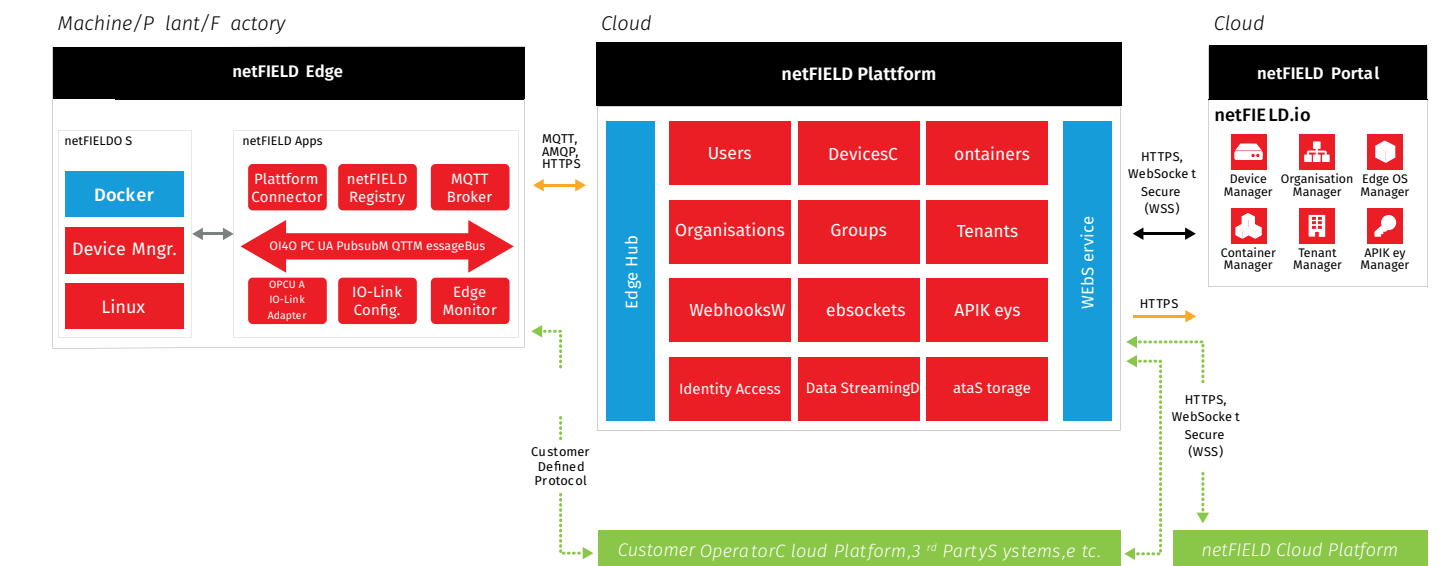
REMOTE MANAGER
Control and manage your devices with a secure, private connection from anywhere.

CONTAINER MANAGER
Create your container collection and share them with your customers and partners.

DATA STREAMING & STORAGE
Use our data storage and real-time IoT streaming for dashboarding and analytics applications.

netFIELD is one platform for all your data integration and application management needs.

REACH NEW HEIGHTS

Item	Description
☑ **ON-BOARDING WORKSHOP**	Hands-on workshop about how our technology can elevate your business outcomes. Any number of participants, one price.
☑ **netFIELD.IO TENANT**	Get your slice of a multi-tenant cloud.
☑ **netFIELD.IO INSTANCE**	Your dedicated cloud deployment.
☑ **netFIELD OS**	Our proven OS on your devices.

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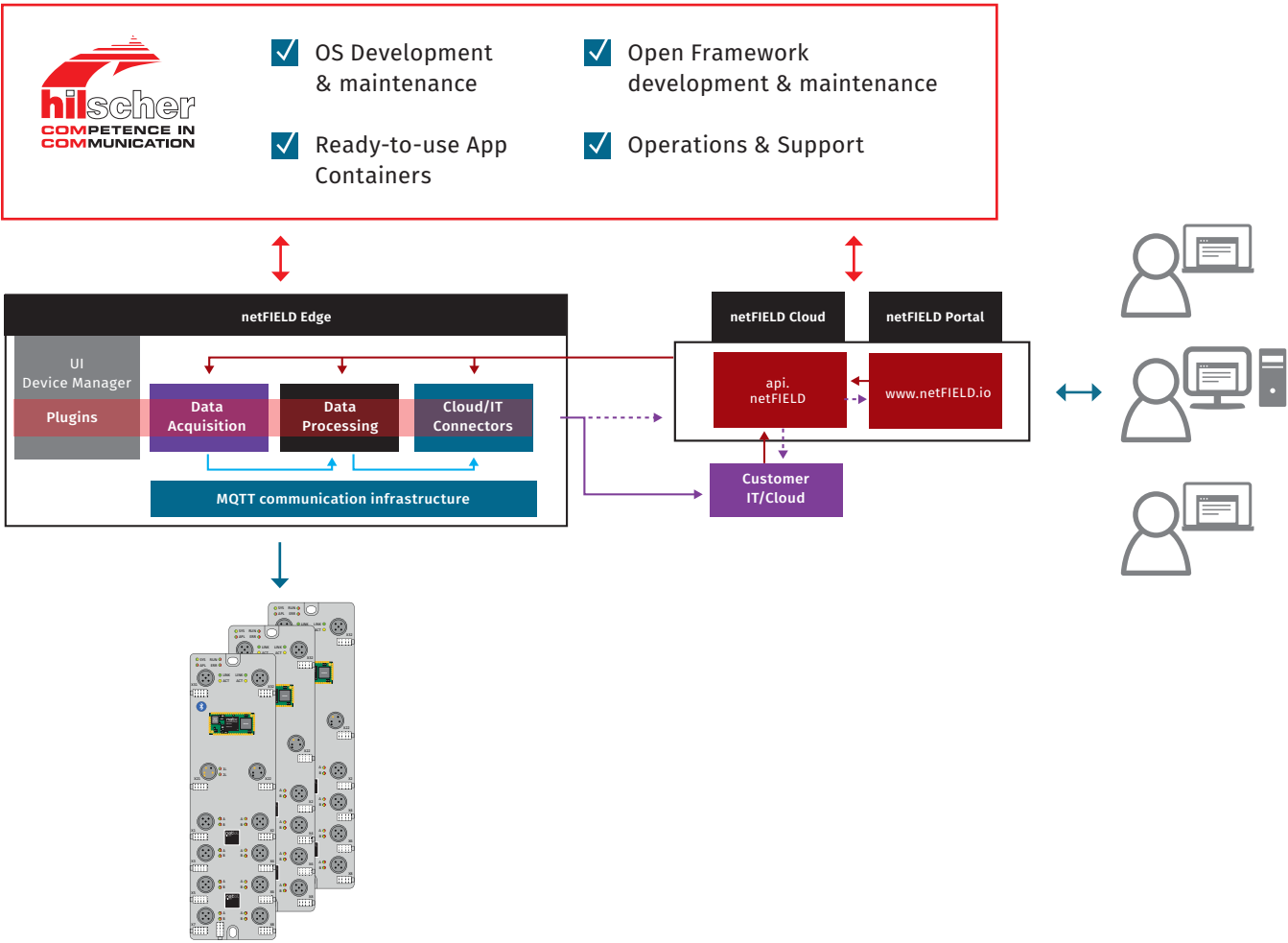Find more
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netFIELD

COST STRUCTURE

netFIELD: SOFTWARE AS A SERVICE

The **netFIELD** framework (**netFIELD** Cloud, **netFIELD** Portal, **netFIELD** Apps and **netFIELD OS**) is designed to help you run your cloud-based business model for industrial applications. It allows you to manage distributed edge devices or instances inside plants or machines that aquire, process and consolidate data to be transferred to cloud applications.

Hilscher is developing, maintaining and supporting the framework and provides it as Software-as-a-service (SaaS). This allows the implementation of not only modern technical services but as well an attractive cost structure that supports your business model being technically and commercially efficient.
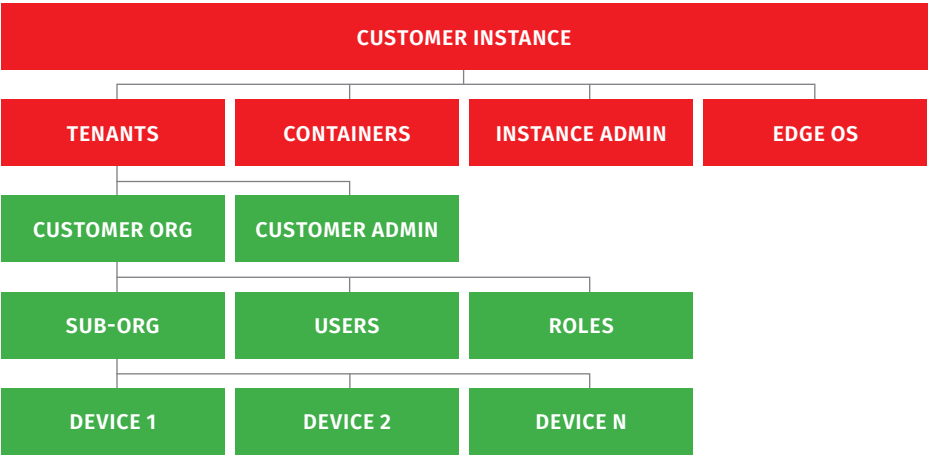
- ☑ OS Development & maintenance
- ☑ Ready-to-use App Containers
- ☑ Open Framework development & maintenance
- ☑ Operations & Support

netFIELD Edge

UI Device Manager

Plugins

Data Acquisition | Data Processing | Cloud/IT Connectors

MQTT communication infrastructure

netFIELD Cloud | **netFIELD Portal**

api. netFIELD | www.netFIELD.io

Customer IT/Cloud

USING NETFIELD SERVICES YOU GAIN A WIDE RANGE OF FLEXIBILITY BY SELECTING ONE OF THE BASIC SUBSCRIPTION MODELS

ESSENTIAL
Entry-level with a relatively low number of devices

BUSINESS
Flexible tenant structure for device fleet management

ENTERPRISE
Full instance authority with all framework features

netFIELD: SUBSCRIPTION MODELS

netFIELD subscriptions mainly differentiate by the administration level of the framework. While the Essential model allows a user to just manage its devices, the Enterprise model instantiates the framework under the full management authority of the subscriber.

NETFIELD.IO ORGANIZATIONAL VIEW

CUSTOMER INSTANCE			
TENANTS	CONTAINERS	INSTANCE ADMIN	EDGE OS
CUSTOMER ORG	CUSTOMER ADMIN		
SUB-ORG	USERS	ROLES	
DEVICE 1	DEVICE 2	DEVICE N	

LIST OF SUPPORTED FEATURES OF THE SUBSCRIPTION MODELS

Feature Overview	Essential	Business (Tenant)	Enterprise (Instance)
Tenant management	☐	☐	☑
Manage organisations and sub-organisations	☐/☐	☑/☑	☑/☑
Possibility to create users/administrators	☑/☑	☑/☑	☑/☑
Control update timeframe of the cloud platform	☐	☐	☑
Release and provide your OS/FW versions	☐	☐	☑
Data storage in encapsulated database	☐	☑	☑
Number of managed devices, users, organisations and API-keys	limited	defined by tenant	unlimited
Send process data to your own IT environment (no storage in the Hilscher Portal netFIELD.io)	☑	☑	☑
Own domain naming for netFIELD.io platform	☐	☐	☑
Subscription costs on monthly basis	☑	☑	☑
Initial setup cost	☐	☑	☑
Onboarding Workshops	☐	☑	☑

INITIAL

Art. No.	Item	Description	Costs
TBD	On-Boarding Wokshop	Duration: 2 days For clarification of customer application and netFIELD.io platform setup requirements	One time payment
TBD	Test devices	PROFINET IoT Gateway "Connect" (NIOT-E-TP51-EN-RE); max 3 devices; available only in combinatiom with the On-Boarding Workshop	
1351.020	netFIELD Essential Setup	Setup and commissioning; includes 5 devices, 3 users	
1351.021	netFIELD Business Setup	Setup and commissioning	
1351.022	netFIELD Enterprise Setup	Setup and commissioning	

PLATFORM OPERATIONAL COSTS

Art. No.	Item	Costs
TBD	netFIELD Essential Subscription	Subscription / month
TBD	netFIELD Business Subscription (5 users)	
TBD	netFIELD Enterprise Subscription (5 users)	

DEVICE MANAGEMENT COSTS

ENTERPRISE AND BUSINESS SUPSCRIPTIONS

Art. No.	Item	Costs
TBD	Edge Gateway (EGW) management: includes all data traffic required for health and status data, firmware updates and container configuration management	Subscription / month tiered pricing based on number of connected EGWs

ESSENTIAL SUBSCRIPTION

Art. No.	Item	Costs
TBD	Edge Gateway (EGW) management: includes all data traffic required for health and status data, firmware updates and container configuration management	Subscription / month tiered pricing based on number of connected EGWs

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netFIELD DEVICE

IP67, netX SOCS & netRAPID

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
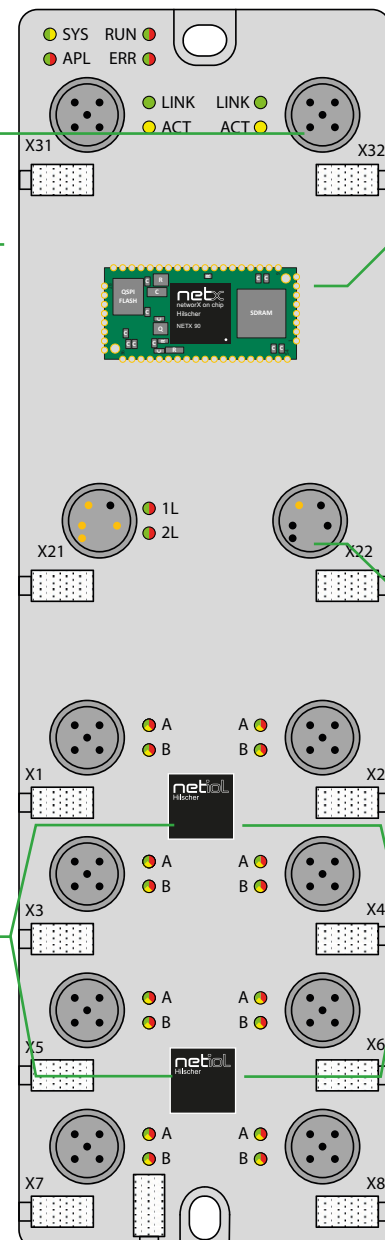
Modular application firmware

- 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
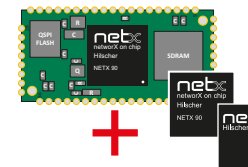
Alternatively IO-Link wireless module

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

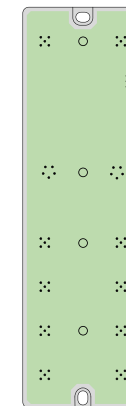# FROM CHIPSET VIA MODULE TO BRANDLABELED IP67 DEVICE

netX 90 & netIOL

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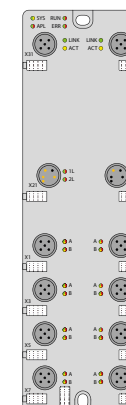- Branded software or own application

netXRAPID 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
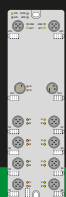- design & production by OEM

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

3 OEM SPECIFC

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	IO-Link DI/DO/DIO	IO-LINK Wireless Master	IO-Link Device (Hub)
IO-Link Master, Digital Input/Output	IO-Link Master, 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	8 Port IOL-M, Class A	Wireless, 2 tracks, 16 channels	IOL-Hub, Class A IOL-Hub, Class B
16 DI, 16 DO, 16 DIO, 8 DIO + 8 DIO	16 DI, 16 DO, 16 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)

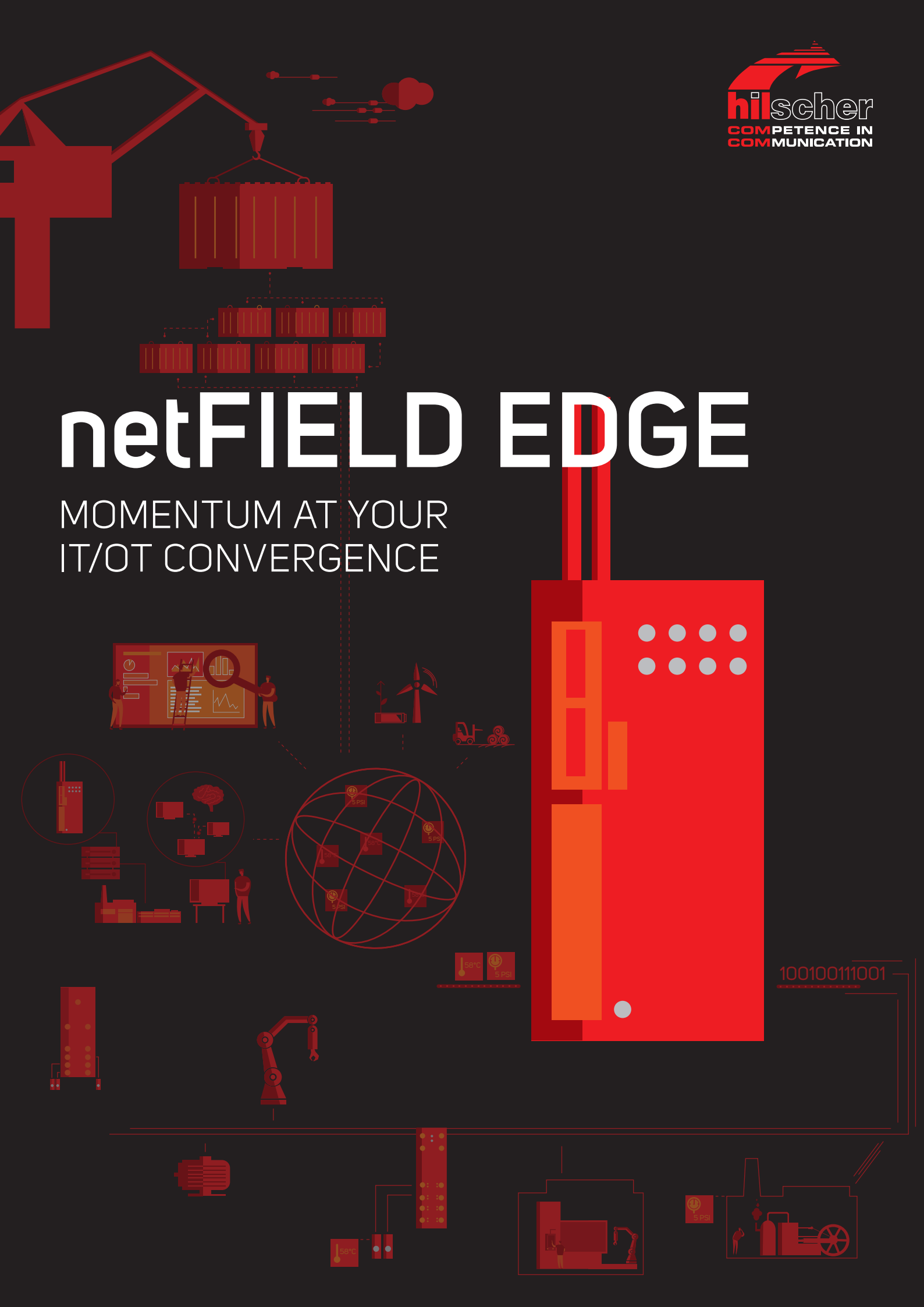Note: All technical data may be changed without further notice.

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netFIELD EDGE

MOMENTUM AT YOUR IT/OT CONVERGENCE

YOUR DIGITAL IIOT TRANSFORMATION WITH OUR MANAGED EDGE DEVICES

Devices of **netFIELD** Edge complement the factory floor when PLCs alone come to their limits in IIoT based instrumentations delivering loads of data. They aggregate, compute or forward with power. Your augmented intelligence software either device deployed or on a companion cloud exploits the information flood turning it into factory insights to gain beneficial value outcome like reducing downtimes or increasing efficiency.

The integrated Docker enables the deployment of any business logic and computing jobs wrapped up into secure and portable containers. In minutes your software is shifted to the local edge on any number of devices managed worldwide through a complementing web portal.

YOUR FOCUS STAYS ON APPLICATIONS WITH OUR EDGE SOLUTION-READY PLATFORMS

HIGH ASSURANCE LINUX
YOCTO Linux with security modules, signed images boot only and TLS secured web front end

DOUBLE DOCKER
Portal and local shell managed two Docker instances for moving containerized workload encapsulated and securely onto the devices

INDUSTRIAL ETHERNET
Multi-protocol controller **netX** featuring Industrial Ethernet networks real-time processing in active or listening mode

ENHANCED CONNECTIVITY
Device model dependent connectivity options for Wifi, USB, serial, CAN, storage, display and many more

COMPUTING POWER
Sufficient CPU power executing even sofisticated container software on premise

☑ Separate OT ports for Real-Time Ethernet networks like PROFINET, EtherCAT, EtherNet/IP

☑ Powerful x86 or ARM based quad-core CPUs with clock rates starting at 1.2GHz
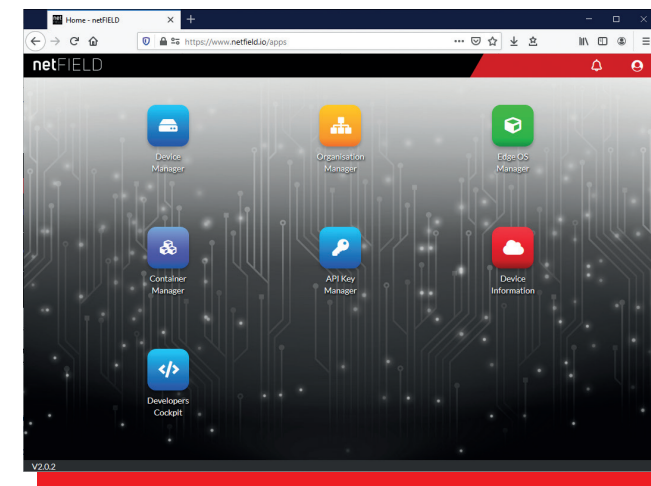
☑ IT uplink ports for both local or cloud based intermittent communications

☑ Additional interfaces for different types of sensors and actuators of the shop floor

YOUR DEVICE FLEET MANAGED THROUGH YOUR INTERNET PORTAL

ENTERPRISE PORTAL
Web control center for remote orchestration and management of installed device fleet and their software containers

ACCESS CONTROL
Administration of company hierarchical structures with role-based permission control

REST API
https based programming interface for building own fully featured portal independent web or mobile apps

SCALEABLE ROLL-OUT
OEM prepared to maintain an own instance or a custom portal copy as a tenant

❗

Our hybrid Edge/Portal solution brings intelligence to your IT/OT transitions at any time from anywhere. Remote deployment, troubleshooting and auto-provisioning contribute to a rapid scale across any containerized software to reduce capital and operational costs of your Integrated Industry and Automation projects.

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Technical data	Description
OT networks support	Protocols PROFINET, EtherNet/IP, EtherCAT, Modbus TCP
IT networks support	Any Ethernet frame based protocol
Operating system	Linux, Yocto based
Security enhanced OS	Yes
Real-Time kernel patched	Yes
SSH access	Yes
Web user interface	Cockpit, www.cockpit-project.org
Container engine	Docker 19.x CE
Docker engine instances	Two. First locally manageable, second from remote
Local instance management	Via SSH or Cockpit UI, Docker standard
Remote instance management	Via www.netfield.io internet portal, usage optional
Portal subscription	On monthly basis
Fleet container management	Via portal UI frontend
Remote access to local UI	Via portal UI frontend
Remote software update	Via portal UI frontend
RESTful API backend	Yes
White labeling	Yes

Article	Order Number	Description
NIOT-E-TPI51-EN-RE/NFLD	1321.400/NFLD	Docker Edge Gateway "netFIELD Connect", 4x 1.2GHz ARM32 CPU, 1GB RAM, 8GB SD, Wifi
NIOT-E-TIJCX-GB-RE/NFLD	1321.300/NFLD	Docker Edge Gateway "netFIELD OnPremise", 4x 2GHz x64 CPU, 8GB RAM, 128GB SSD, Wifi

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sensorEDGE

LET IO-LINK SENSORS SPEAK INTERNET DIRECTLY

LEAVE CLASSIC IO-LINK INSTRUMENTATIONS BEHIND – USE INSTANT-ON INTERNET INSTEAD

sensorEDGE gets your IO-Link sensors' data directly on the internet eliminating the use of PLCs, Fieldbus and separate IO-Link masters. The sensor boxes uplink to an internet portal where the boxes and the connected sensors are ad-

ministered and their data is visualized. IO-Link sensors are commissioned with ease due to an auto-discovery and -provisioning service using sensors' IODD files automatically grabbed from a central database.

RUGGED IO-LINK-TO-CLOUD SENSOR BOX

HIGH DATA UPDATE RATE
Data exchanged at fine scale for responsive and time sensitive applications
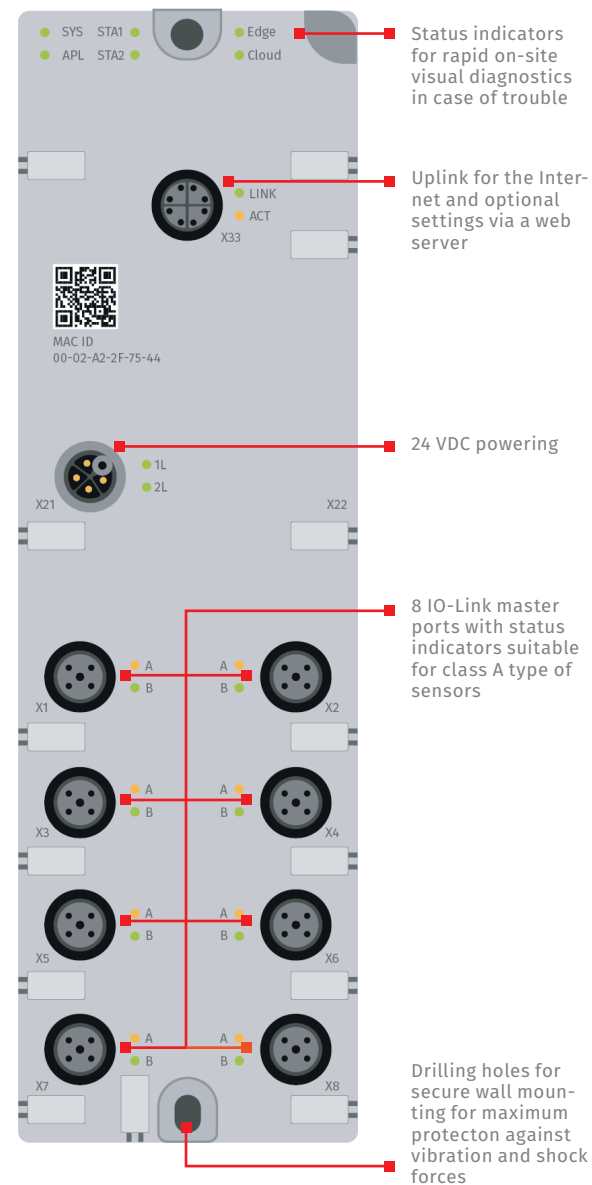
IP67 CLASS PROTECTED
Ecapsulated for cabinet-free installations in the field in any machine-close harsh environment

8 IO-LINK CHANNELS
For multi-sensor applications with high demand for local scope-limited connectivity

IO-LINK CONFIGURATOR
Embedded web tool to auto-configure known or manually configure even high sophisticated sensors with support of IO-Link IODD files

Status indicators for rapid on-site visual diagnostics in case of trouble

Uplink for the Internet and optional settings via a web server

24 VDC powering

8 IO-Link master ports with status indicators suitable for class A type of sensors

Drilling holes for secure wall mounting for maximum protecton against vibration and shock forces

YOUR SENSOR DATA MONITORED ANYWHERE AT ANY TIME

CENTRAL ORCHESTRATION
Time saving device and sensor administration from anywhere in the world across the **sensorEDGE** portal .

FLEXIBLE DASHBOARDS
Powerful dashboards with a set of different widgets to monitor sensor data online at any time.

REST API CONNECTOR
Personal endpoint to query maintained sensors' data from own applications for monitoring, long-term analytics or diagnostics.
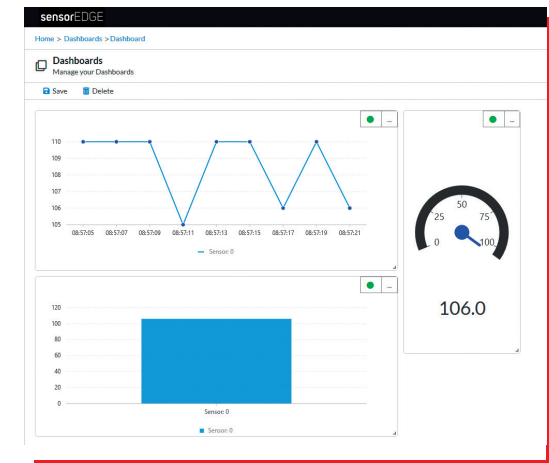
*The **sensorEDGE** boxes are compatible with over 10.000 marketed IO-Link devices. By redirecting their data to the Internet directly they are the cost-saving solution for any small and mid-range stand-alone and unattended in- and outdoor application. Remote monitoring your distributed assets wasn't easier.*

TECHNICAL DATA

IO-Link connectivity 8 x Class A IO-Link master		**Dimension (L x W x H)** 200 mm x 60 mm x 20 mm	
Ethernet uplink 1 x 100MBit/s		**Rating** IP67	
Power Supply 1 x 24V DC			

PRICING

sensorEDGE Device	One-off costs
Portal subscription	Monthy/annual, prepaid billing
Sample rate/transfer interval to portal	1 x per second/10 seconds/minute/hour/day
Dashboard widgets	Online line chart, gauge chart, bar chart
API request limit per month	2 x sample rate x 2.592.000

PARTICIPATORY EVALUATION JOIN THE PARTNERSHIP PROMOTION PROGRAM

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APP
CONTAINER

INTELLIGENT EDGE SOLUTIONS

customer**HILSCHER**

100100111001

BUILDING A CUSTOMER SOLUTION IS LIKE AN ORCHESTRATION.

A huge choice of availabe application containers can be networked to complete the costumer solution with a minimum of development effort.

Application containers might provide functions for
· Process-, Topology- and Asset Data acquisition from field devices and other data sources
· Data storage, aggregation and filtering
· Cloud-/On-Premise application connectivity and secure data transport

The open **netFIELD** application container reference architecture includes interfaces for the inter-container communication using MQTT. In this way it is possible to distribute overall solution workload over several devices or virtual machines. Additionally an application container may also equipped with user friendly web application which can be seamlessly integrated as plugin into the Edge Device Manager. The ability to implement methods into an application container, which can be called via the cloud api is completing the reference architecture of a **netFIELD** application container.
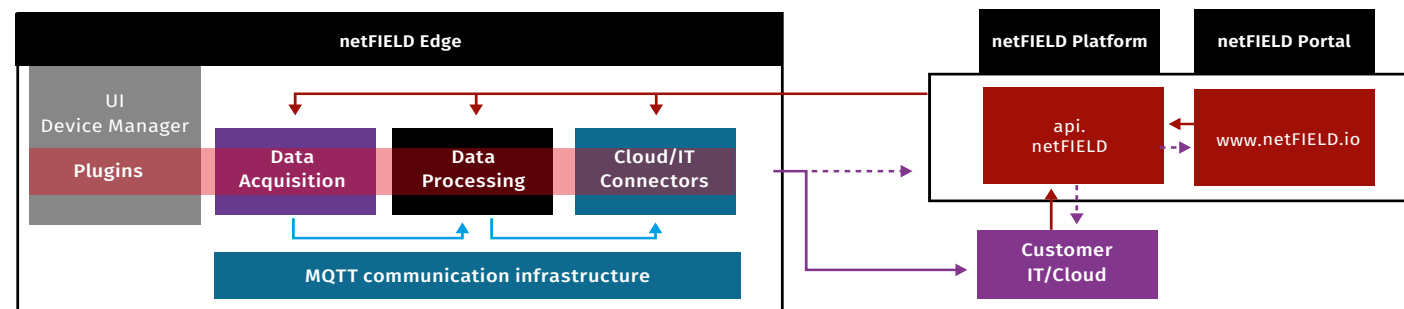
READY TO USE NETFIELD APPLICATION CONTAINER

NETFIELD APP PROFINET TOPOLOGY
Make local data centrally available in the **netFIELD** Cloud platform.

☑ Transport data from the MQTT communication infrastructure to the **netFIELD** cloud platform API, where this data is exposed as a Web Socket Secure endpoint. You are free to configure which data topics are transported to the **netFIELD** Cloud platform.

☑ The configuration can be done locally or remote via the Device Manager provided by **netFIELD** OS.

☑ Stream this data into analytics pipelines or realtime dashboards. The firmware update of the **netFIELD** Edge device is also managed by the **netFIELD** Proxy application container.

NETFIELD APP PROFINET DEVICE
Enable a **netFIELD** Edge device to be a field device in a PROFINET network

☑ **netFIELD** Edge devices with integrated netX technology can be connected directly to a real time ethernet network. In this case the **netFIELD** Edge device can exchange cylic IO data with the PLC. Input an output data can be read/write via the MQTT communication infrastructure.

☑ The configuration can be done locally or remote via the Device Manager provided by **netFIELD** OS.

NETFIELD APP PROFINET TOPOLOGY
Monitoring of topology and assets connected to a PROFINET network.

☑ The **netFIELD** PROFINET Topology application container is able to recognize, which devices including IO-Link sensors are available in the network and knows how they are related to each other.

☑ The complete set of asset data and network information is published to the MQTT communication infrastructure on a regular base.

NETFIELD APP PROFINET TAP
Data diode to the field network and data filtering

☑ This one-way network connector can be attached without need to change the PLC configuration. The inital configuration is done while the machine will start. In this phase the **netFIELD** App PROFINET Tap is collecting all information about attached devices and IO data exchange between devices and PLC. Each IO data-point of a field device can be selected for publishing it to the MQTT communication infrastructure.

☑ The configuration can be done locally or remote via the Device Manager provided by **netFIELD** OS.

MQTT COMMUNICATION INFRASTRUCTURE

☑ A further ready to use **netFIELD** application container is the **netFIELD** App MQTT Broker, which can be deployed to any **netFIELD** Edge device running **netFIELD** OS or a virtuell **netFIELD** Edge device running **netFIELD** OS for Datacenter. So it is possible to provide the MQTT communication infrastructure by one single device. In the case, that an MQTT broker is already available in the network, this broker can be used as MQTT infrastructure for the **netFIELD** application container as well.

NETFIELD APP EDGE MONITOR
Monitor your **netFIELD** Edge device resource usage.

☑ Gain health insights and take action based on the acquisition of **netFIELD** Edge device configuration information and resource consumption data. The collected information are published to the MQTT communication infrastructure on a regular base.

☑ **netFIELD** Proxy is available and configured to provide these data to the **netFIELD** Cloud platform a data vizalization is available in the **netFIELD** Portal.

NETFIELD APP OPC UA CONNECTOR
Connect to and browse multible OPC UA server of field devices

☑ This easy-to-use OPC UA Connector enables the connection to multiple OPC UA capable field devices and is able to automatically browse the complete node tree of any OPC UA Server. Relevant nodes can be selected so that the values can be published in the MQTT communication infrastructure. The configuration can be done locally or remotely via the device manager provided by **netFIELD** OS.

NETFIELD APP AZURE/AWS/GOOGLE CONNECTOR

☑ Push selected data streams to the cloud of your choice.

☑ Transport data from the MQTT communication infrastructure to the Azure, AWS or Google cloud.

☑ The app configuration can be done locally or remote via the Device Manager provided by **netFIELD** OS or **netFIELD** Cloud.

*Deploy the ready-to-use **netFIELD** apps together with self-developed containers to your **netFIELD** Edge devices in order to complete high-quality customer solutions.*

Article	Order Number	Category	Version	Price / per Edge (EUR)
netFIELD App PROFINET Topology	1917.006			
netFIELD App PROFINET TAP	1917.007	Data Acquisition	1.0.0	
netFIELD App PROFINET Device	1917.004	Data Acquisition	0.9.3	
netFIELD App OPC UA Client	1917.009	Data Acquisition	0.9.1	
netFIELD App Google Connector	1917.003	IT/Cloud Connectors	1.1.0	
netFIELD App EtherCAT Tap	1917.008	Data Acquisition	Q4/2020	
netFIELD App Edge Monitor	1917.005	Data Acquisition	0.9.1	
netFIELD App Azure Connector	1917.001	IT/Cloud Connectors	1.1.0	
netFIELD App AWS Connector	1917.002	IT/Cloud Connectors	1.1.0	
netFIELD App Platform Connector	–	Connectivity	1.1.2	
netFIELD App MQTT Broker	–	Connectivity	1.6.8	
netFIELD App IO-Link Configurator		Connectivity	0.9.1	
netFIELD App OPC UA IO-Link Adapter		Connectivity	0.9.1	
netFIELD App IBH S7 Connector		Data Acquisition	Q4/2020	

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