

### Hilscher Gesellschaft für Systemautomation mbH Intelligent solutions for industrial communication

www.hilscher.com

## **Facts & Figures – General**



#### **Headquarter:**

- Foundation:
- Location: Hattersheim, Germany
- Privately owned by: Hans-Jürgen Hilscher •
- Core Competence: •
- Employees:
- Turnover:

#### 8 Subsidiaries:

- USA
- France
- Switzerland
- Italy



India

China

Japan

1986

- Industrial Communication & IoT 270 in Germany + 80 Worldwide
- ~ € 50 Mio

Republic of Korea

### **Development & Test Centers:**

- Bulgaria
- Berlin, Germany









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**80+ Distributors** 

### Your Benefit – One Partner for all Needs



#### Firmware, Realtime Ethernet & Fieldbus Stacks:

- Hilscher develops & maintains the most important Communication Protocols in Factory Automation
- Majority of Protocols is available as Slave & Master Stack



#### Sate-of-the-Art Technology:

- Hilscher uses only the newest and most proven Technologies for its Products
- Device & Container Management is available throughout the Hilscher Platform Strategy



#### **Driver & SW Tools:**

Hilscher provides Drivers and Software Tools for your Needs INtime



Linux

## Your Benefit – One Partner for all Needs



#### **Development:**

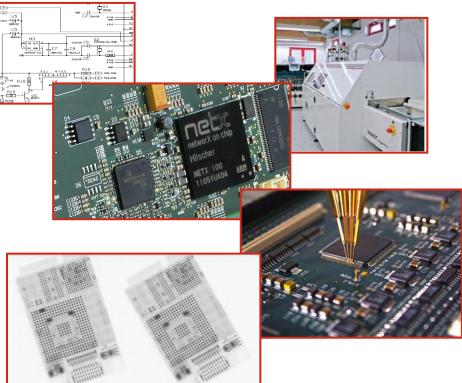
- Hardware Interfaces / ASIC Design
- Custom Design and Development
- Tools, Drivers & Stacks

### **Quality:**

- Certified Product Testing
  - EMC, Climate Chamber, Software Verification
- 100% Inspection (IPC A610 Class2)
  - Optical Inspection, X-Ray, Flying Probe, Final Test

#### **Production:**

- State of the Art Modular SMD Production
- Flexible Production Line for Low and Mid-Size Quantities



### **Markets / Sectors**





## Your Benefit – Platform Strategy Concept



#### Fieldbus and RTE Procols:

• All major Fieldbus and RTE communication protocols for factory automation with only one single ASIC.

#### **Formfactor:**

• Scalable formfactors including scalable computing power for all platforms.

#### Software:

• All netX based products use the same software toolkit, drivers and host interfaces, application remains untouched.

#### **Development:**

• Same host interface and software across product portfolio saves development time.

#### netX Products:

 All Hilscher products (standard and customer specific) are based on proven netX technology.

#### **Time to Market:**

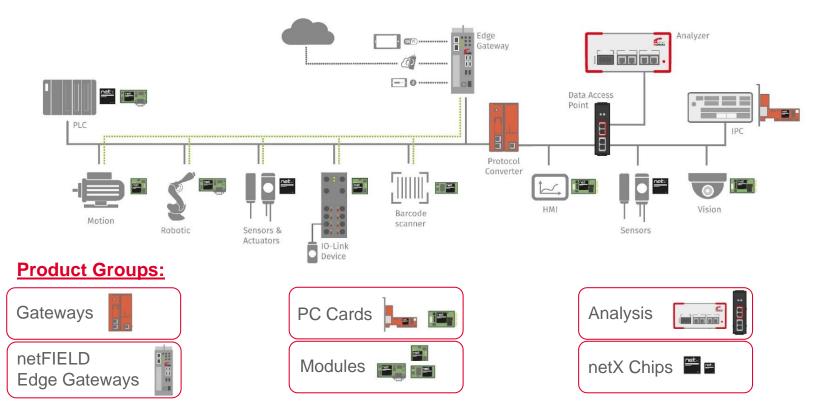
- PC cards realize short time to market and guarantee lean developments.
- Modules and chips realize smaller, more specific designs and have lower BOM costs.

#### **Highest Production Standards:**

- Made in Germany: complete product portfolio produced at Hilscher HQ.
- Extensive test and quality procedures.

## Your Benefit – Platform Strategy in the Field

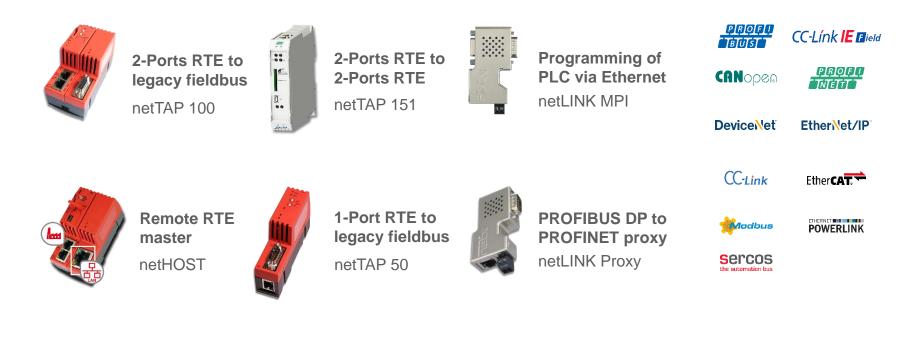




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### **Gateways – Overview and Typical Use-Cases**







### cifX – Industrial Communication for PC Based Systems



#### PC cards for Real-Time Ethernet and Fieldbus connectivity

- All common card formats
- All major industrial protocols as Master and Slave
- One hardware for all Real-Time Ethernet protocols
- Same application interface for all networks



ETHERNET

POWERLINK

CC-Línk

CC-I ink IE Bield

Ether**CAT** 





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the automation hus

# Full network support for every Use Case

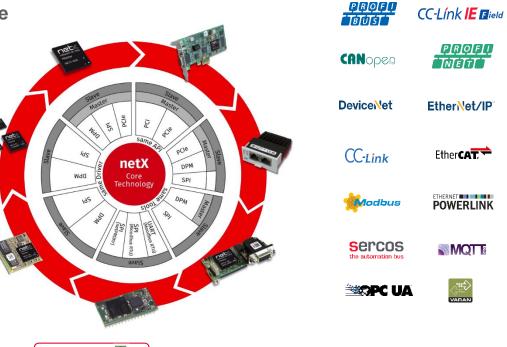
- Fieldbus, Industrial Ethernet & IIoT
- PLC, Weighing, Welding, Assembly, Pneumatics, MSR, Drive, HMI, Robotics and more …

#### **Hilscher Platform Strategy**

- Same function
- Same tools
- Same API
- For all products



Modules 📳





### netFIELD System Architecture

#### netFIELD OS

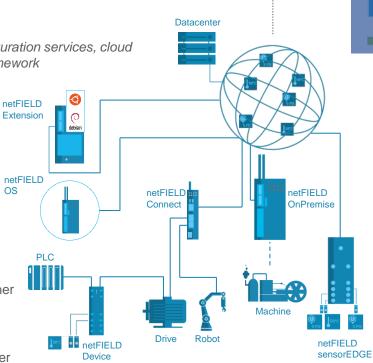
Extends the Linus Kernel with configuration services, cloud connection and a Docker-based framework

- Runs in a Virtual Machine
- Runs as extension at Ubuntu and Debian

#### netFIELD Edge

Managed Edge Devices for the IT/OT convergence

- High assurance Linux as basis
- Open platform for any Docker container
- Dual Docker Software Architecture
- Remotely or locally manageable
- On-board Industrial Ethernet Controller







#### netFIELD Cloud

#### netFIELD Platform and netFIELD Portal

Manages the Edge and deploys the Docker apps

- REST API to access the data
- Option to white-labeling

#### sensorEDGE

Rugged IO-LINK-to-Cloud sensor Box

- 8 IO-Link channels
- Plug & Play cloud dashboard
- Open API data connector





### Hilscher Gesellschaft für Systemautomation mbH

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