netFIELD EDGE
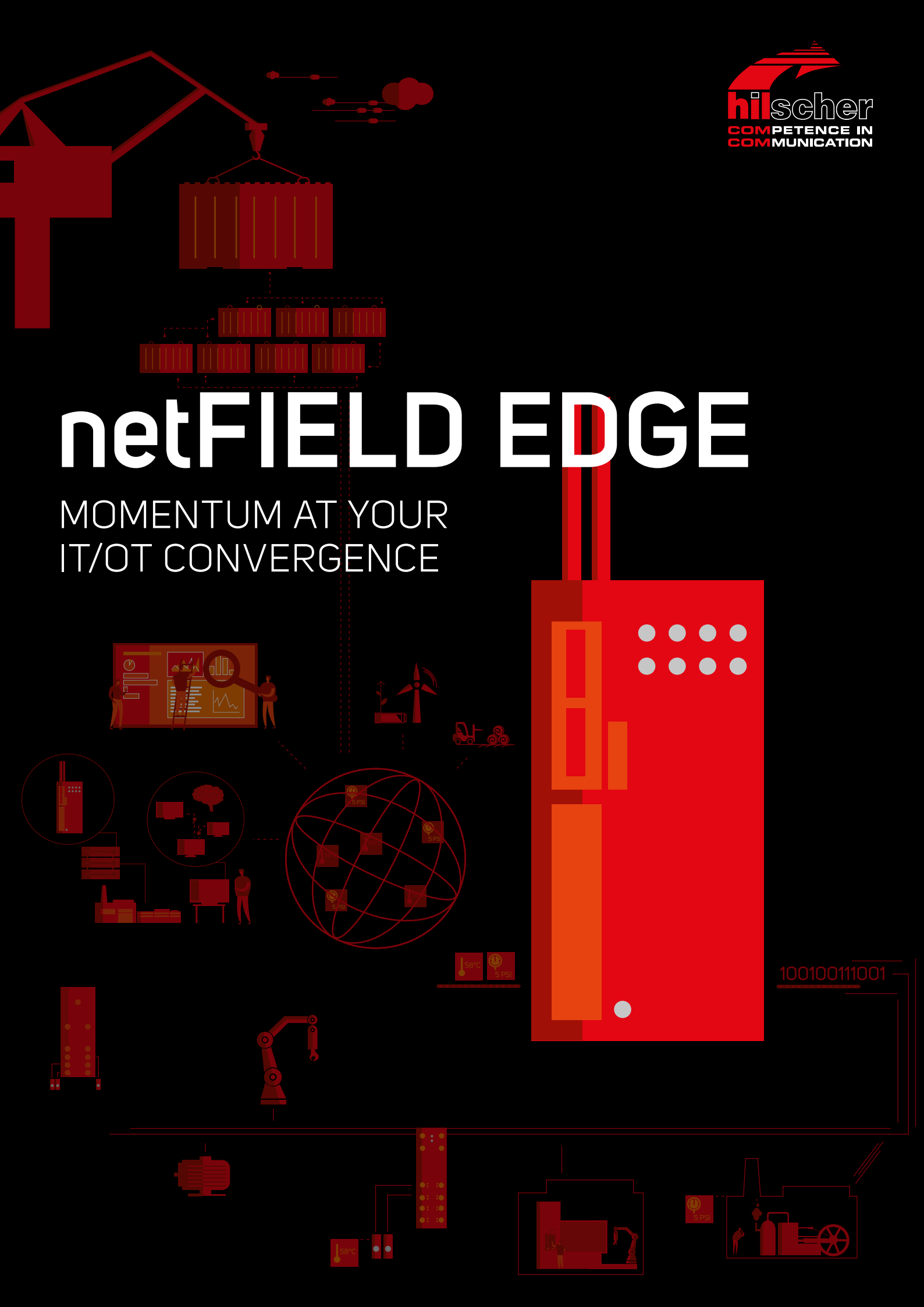
MOMENTUM AT YOUR IT/OT CONVERGENCE

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

SECURITY ENHANCED LINUX

YOCTO Linux with security modules, signed images, secure boot and TLS secured web front end

DUAL DOCKER
Portal and local shell managed two Docker instances for deploying containerized workloads encapsulated and secure on the devices

INDUSTRIAL ETHERNET
Model dependent support of Industrial Ethernet as active device or passive 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

☑
Separated network ports for proper network segmentation

☑
Powerful x86 or ARM based quad-core CPUs with clock rates starting at 1.2GHz

☑
IT uplink ports for both local or cloud based continous communications

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

YOUR DEVICE FLEET MANAGED THROUGH YOUR INTERNET PORTAL
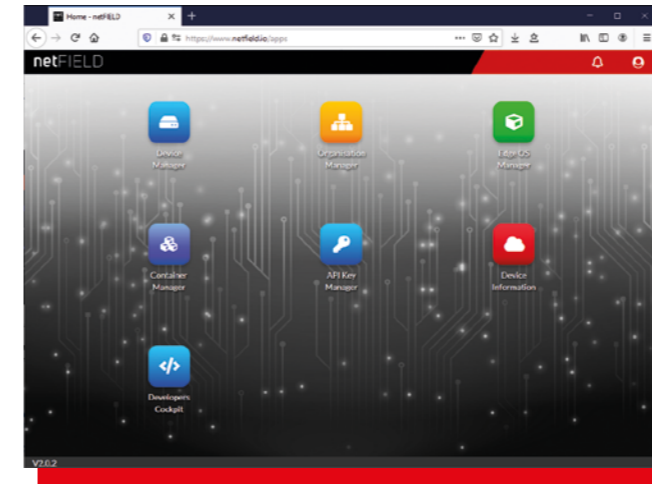
ENTERPRISE PORTAL

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 cloud applications

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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FACT SHEET - THE TECHNICAL DATA

Technical data	Dependency	Description
Industrial Ethernet	Device Model	Support of active IO device or passive listening mode
Extended connectivity	Device Model	Wifi, I/O, serial, CAN possible
Security	Device model	Protection objectives in accordance with IEC 62443
Operating system	Preloaded	Yocto project based, security enhanced Linux OS
Web user interface	Preinstalled	Local device setup/control across several dialogs
Applications	Loaded containers	Any containerized application from private or public repository
Container engines	Preinstalled	Docker CE
Engine instances	Two instances	One instance locally managable, other from remote over portal
Local instance management	Via SSH or web ui	Standard Docker CLI commands
Remote instance manage-	Via www.netfield.io	Internet portal with device access from anywhere, optional
Remote management	Subscription	Optional Internet portal usage. Payment on monthly basis
Fleet management	Devices and containers	Automated overall actions from central portal
Device acccess	Configurable ports	Remote access to local device web UI or container apps
Software updates	Containers or OS	Controlled installation of updates/functions from remote
Portal RESTful API	Open documentation	Access/control of all portal services from 3rd party apps/clouds/ui
White labeling/Rebranding	Device and portal ui	Tailor made, on demand

Article	Order Number	Description
NIOT-E-TPI51-EN-RE/NFLD	1321.400/NFLD	Edge Gateway "netFIELD Connect", 4x 1.2GHz ARM32 CPU, 1GB RAM, 8GB SD, Wifi, USB 2.0, 100Mbit LAN, Industrial Ethernet, -20 to 60°C
NIOT-E-TIJCX-GB-RE/NFLD	1321.300/NFLD	Edge Gateway "netFIELD OnPremise", 4x 2GHz x64 CPU, 8GB RAM, 128GB SSD, Wifi, USB 3.0, Gbit LAN, Industrial Ethernet, serial RS232/485, 0 to 50°C
NFX8M-D2-N32-010	1918.010	Edge Gateway "netFIELD Compact X8M", 4x 1.6GHz ARM64 CPU, 2GB RAM, 32GB eMMC, USB 2.0, Gbit LAN, serial RS232/485, secure boot, -20 to 60°C

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