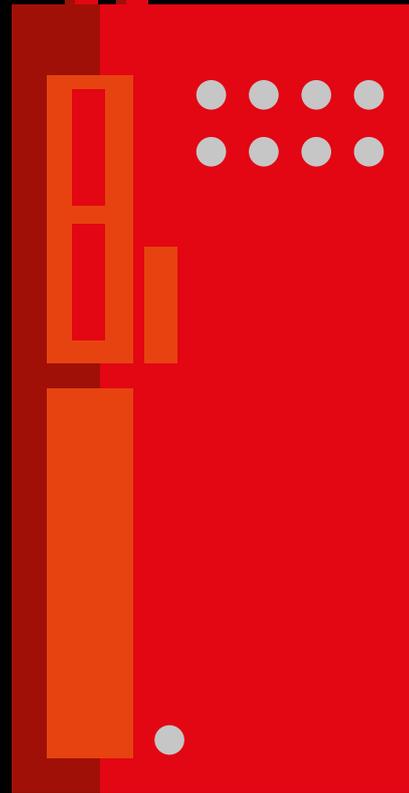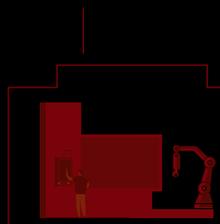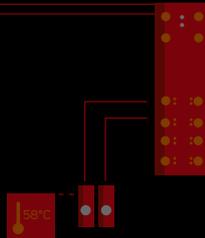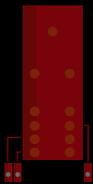# netFIELD EDGE

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

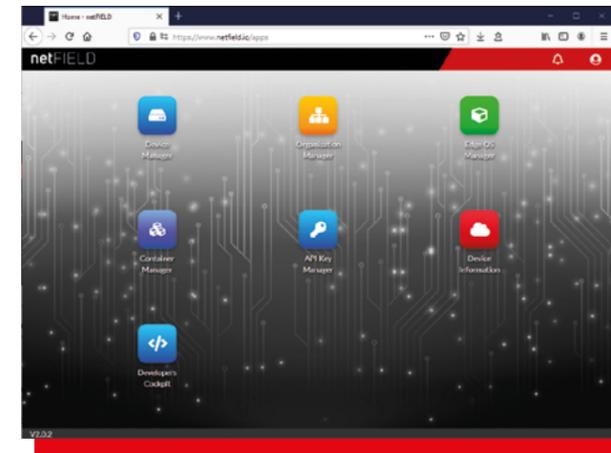☑ Powerful x86 or ARM based quad-core CPUs with clock rates starting at 1.2GHz

☑ 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

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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.

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

03/2021 GB