

netFIELD OnPremise

Edge Gateway with remote management option

- x86-processor-compatible Box PC that suits industrial needs
- Preloaded 64-bit operating system, web front-end & container engines
- Open for any containers based on x86/x64 architecture
- Real-Time Ethernet support in the operating mode „Device“
- Captures Real-Time Ethernet communication in the operating mode „Passive“



x86-computer platform for containerized applications

The netFIELD Edge devices are intelligent data routers between the operating (OT) and the information technology (IT) level of automated systems. They autonomously aggregate, process, or transmit IIoT information alongside established production and control processes utilizing freely loadable software packed in containers.

The devices' basis builds a secured Linux, a web configuration interface, and two independently operating container engines. Each device and one of the container engines can optionally be managed remotely over a platform. The digital workspace allows the 24/7 life cycle engineering of your distributed units and the containers from a central location.

It reduces the management complexity to simple clicks of UI controls that allow you to face each of your upcoming remote IIoT projects with confidence.

The flexibility of the devices is suitable for all kinds of IoT-supported industrial applications - whether you deploy your data mining code directly to the devices or shift data intelligence to any cloud in forwarding scenarios. In either case, those logics enable you to better understand plant patterns and relationships for optimization purposes or anomaly recognitions. Challenges like building digital twins and implementing downstream predictive maintenance and condition monitoring solutions can be accomplished with minimum effort in the shortest time.



→ QR Code Link: netFIELD OnPremise
Service-Hotline: +49 (0) 6190 9907-90
www.hilscher.com

Product Information

Order Information

Technical Data

Temperature (Operating | Storage)

±0 ... +50 °C | -20 ... +80 °C

Relative humidity (Operation)

10 ... 93 %

Operating Voltage

24 V DC ± 4.8 V DC / 60 W

Consumption without USB (typical)

420 mA

Consumption with USB

Max. 2.5 A

Connector

3-pin terminal block

Dimensions (L x W x H)

214 × 85 × 157 mm

Weight

2,3 kg

Housing

Metal

Mounting

Screws

Shock resistance

50 G, half sine, 11 ms, IEC 60068-2-27

Vibration resistance

- Random: 2 Grms @ 5~500 Hz, IEC 60068-2-64
- Sinusoidal: 2 Grms @ 5~500 Hz, IEC 60068-2-64

Certification

CE Sign, UKCA

Processor

netX 100 / CPU: 2 GHz Celeron®, Intel® J1900

Operating system

netFIELD OS based on Security Enhanced Linux

Technical Data

Memory

- 8 GB DDR3 RAM
- 128 GB solid state disk drive: 64 GB application, 64 GB backup

Docker

- IoT Edge Docker: for remote and automatic deployment and maintenance of containers
- Standard Docker: for manual and local deployment and maintenance of containers

Local Device Manager

Web-based GUI for local device parameterization

USB

3x USB 2.0 (500 mA), 1x USB 3.0 (900 mA), all USB max. 2 A

Serial

2x RS-232/422/485 (can be configured)

Display connectors

DVI-I and DP (DisplayPort)

Note: Use only 1:1 DVI or DP connectors. Adapters like DVI-I to VGA or DP to VGA are not supported by the device.

IT Interface (Type | LAN connector)

2x 10/100/1000 Mbit, Intel® I210AT | 2 x RJ45

OT Interfaces (Type | Connector)

10BASE-T/100BASE-TX, potential free, netX 100 | 2 x RJ45

Supported Protocols

- PROFINET IO Device, EtherNet/IP Adapter, Standard TCP/IP (limited throughput)
- Listening ("passive") mode: PROFINET, EtherCAT, Ethernet

Wi-Fi

Single band 2.4 GHz IEEE 802.11n,
2x flexible antenna connection

Security

Bootimg of signed software, access via HTTPS, TLS

LED Indicators

12 LEDs

Real-time clock

Buffering, battery (service interval 10 years)

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

Product overview

NIOT-E-TIJCX-GB-RE/NFLD 1321.300/NFLD

IT/OT Edge device for data-intensive and complex IoT applications with demand on maximum performance, connectivity and memory size.



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