

PROFINET Device App

Data bridge between PROFINET and IIoT

- Offers IIoT data access within a PROFINET network in minutes
- As a PROFINET RT device compatible with any PROFINET controller
- Bidirectional data exchange from MQTT as a user interface to PROFINET
- GSDML-based configuration via integrated web UI as a modular IO device
- Usable on any host system supporting a netX multiprotocol chip



Enable IIoT capabilities for PROFINET systems with an intelligent IO device

The platform-independent netFIELD App PROFINET Device container enables host devices with netX support, such as edge gateways, to exchange real-time process data with a PROFINET controller and access it via an MQTT message bus.

The PROFINET IO configuration is based on a GSDML file uploaded by the user, defining IO modules and specific parameters like DeviceID and VendorID. Through the integrated MQTT client, the app publishes and subscribes to PROFINET data in JSON format over two MQTT topics.

The app makes it easy to upgrade PROFINET systems with IIoT services by providing real-time insights and access to physical processes controlled by the PROFINET controller, enabling smart services like predictive maintenance and productivity optimization.

Under the netFIELD brand, Hilscher also offers additional communication containers, edge device platforms, and a cloud-based remote management solution for devices and containers.



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

Product Information

Technical Data

General

Software type

Container

Repository

<https://hub.docker.com/r/hilscherautomation/netfield-app-profinet-device>

Hardware requirements

Processor architecture

AMD64, ARM64

Container size

400 MB, unpacked

Memory requirements

Minimum 200 MB

Data interface

2x Industrial Ethernet ports

Software requirements

Operating system

Linux

Container runtime environment

Required, e.g. Docker

Data interface

Any MQTT broker, e.g. Mosquitto
(accessible within the container network context)

Runtime properties

Primary communication protocol

PROFINET IO RT (as device)

Secondary communication protocol

MQTT (as client)

Data amount

PROFINET 1436 bytes input / 1436 bytes output process data

Data throughput

100 ms (internal conversion cycle time)

Licensing

Container protection

CodeMeter licensing technology

Product activation

License key

Network license server

Required for license storage and retrieval
(Windows or Container)

Billing model

One-time payment

Note: Technical data subject to change.

Product Overview

NFA-PND-OTP

1917.054

netFIELD App PROFINET Device, floating license including all updates within 1 year after license activation

Optional items

Product Overview

NIOT-E-TIJCX-GB-RE/NFLD

1321.300/NFLD

netFIELD OnPremise - x64 computer platform for containerized applications with netX support



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