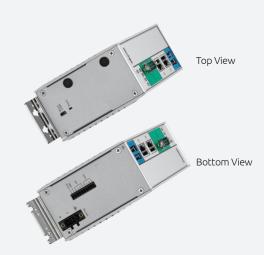
NIFE 103-IoT









Main Features

- Ready-to-use IoT Gateway to accelerate IoT project deployment
- Easy connectivity via IoT studio, drag-and-drop managing data flow
- Connecting Max. 5 devices via Modbus TCP/RTU protocol for data acquisition
- Support wired or wireless cloud connectivity via publish-subscribebased MQTT protocol
- Open architecture support both Windows-based and Ubuntu-based IoT Gateway

Product Overview

NIFE 103-IoT series is designed to acquire data from PLC or device in the field side, and upload or push it to the database or cloud. The NIFE 103-IoT Gateway could also take simple logic control without another computer. With these acquired data, it could help user to improve their process parameter or to predict the machine's maintenance schedule to reduce the machine's down time. The build-in application: IoT-Studio, which will speed up the developed and deploy time.

Hardware Specification

Communication Protocols

- Modbus TCP
- Modbus RTU
- MQTT
- OPC UA client
- OPC UA server (NIFE 103-IoT-UB support)

System Configuration

- Intel Atom® E3826, 1.46GHz
- On-board 2GB DDR3L RAM
- 16G mSATA SSD installed
- 1 x Half size mini-PCIe socket for optional Wi-Fi modules

System I/O Interface

- LEDs for power LED, battery low LED, WWAN LED, WLAN LED
- 1 x Programmable GPO LED
- 2 x Intel® I210AT GbE LAN ports
- 1 x Micro HDMI display output
- 2 x USB 2.0
- 2 x Antenna holes for optional Wi-Fi antenna
- 1 x COM for DB9 connector

Power and Dimension

- Power input: 24V DC +/-20%
- Dimensions: 565mm(W) x 100mm(D) x 120mm(H)

Software Package

- Windows 10 IoT Enterprise 2016 LTSB Entry 64-bit
- Ubuntu 14.04.5 64-bit
- IoT Studio with dashboard
- OPC UA Server (NIFE 103-IoT-UB only)

Certification

- CF
- FCC Class A

Ordering Information

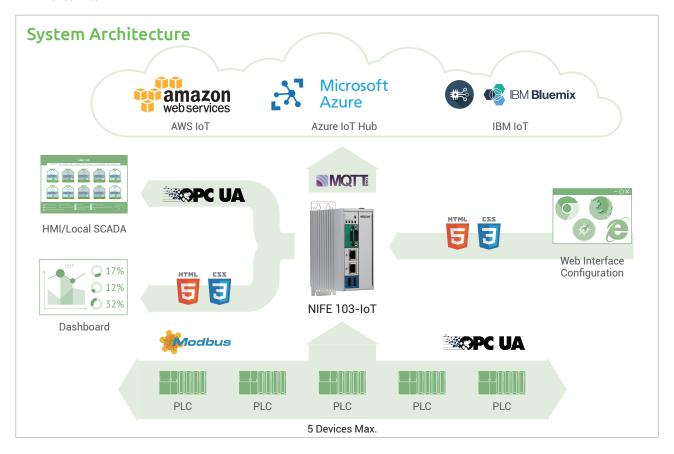
- NIFE103-IoT-W10 (P/N: 10J70010301X0)
 NIFE 103-IoT Gateway with Win10 and IoT Studio
- NIFE 103-IoT-UB (P/N: 10J70010302X0)

 NIFE 103-IoT Gateway with Ubuntu and IoT Studio

Optional

 24V, 60W AC/DC power adapter w/o power cord (P/N: 7400060033X00)





Gateway Feature



PC UA

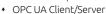
SERVER &CLIENT

60

MQTT

Communication Protocols

- Modbus TCP/RTU
 - Most common communication protocol
 - Connect up to 5 devices max



- OPC UA Client for getting data from the device
- OPC UA Server for access and display data to HMI (NIFE 103-IoT-UB only)





- Push data or message to the cloud or database

Web Configuration



- Rapid prototyping/engineering tool
- With IoT-Studio, user can easy to configure the NIFE 103-IoT setting



- Access and management NIFE103-IoT anywhere via browser
- Support popular browser based on HTML5 & CSS3



amazon

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O IBM Blue

Cloud Connectivity Available

- Azure IoT Hub
 - Service of reliable and secure bidirectional communications between IoT devices and cloud
- AWS IoT
 - The AWS IoT message broker is a publish/subscribe broker service that enables the sending and receiving of messages to and from AWS IoT
- IBM IoT
 - Fully managed, cloud-hosted service that makes it simple to derive value from Internet of Things (IoT) devices



Dashboard UI/HMI Support

- Dashboard
 - Quickly create a dynamic data dashboard.
 - Provide variety of widgets for user to directly use via simple configuration
- Connect to HMI
 - Build in OPC UA Server function which provides data access for SCADA, HMI or controller used





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