**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-subscribe-based MQTT protocol
- Open architecture support both Windows-based and Ubuntu-based IoT Gateway

**Product Overview**

NISE 50-IoT series is designed to acquire data from PLC or device in the field side, and upload or push it to the Google Cloud Services. The NISE 50 Google Cloud IoT ready 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 (NISE 50-GCIOT-UB support)

**System Configuration**
- Intel Atom® E3826, 1.46GHz
- On-board 2GB DDR3L 1066/1333 RAM
- 16G mSATA SSD installed
- 3 x mini-Pcie socket for optional Wi-Fi/3.5G modules

**System I/O Interface**
- ATX power on/off switch
- 1 x Storage, 2 x GPIO programmable LED
- 1 x SIM card holder
- 2 x Intel® I210-AT GbE LAN ports
- 1 x HDMI display output
- 4 x USB 2.0
- 2 x Antenna holes for optional Wi-Fi/3.5G antenna
- 3 x COM for DB9 connector

**Power and Dimension**
- Power input: 24V DC +/-20%
- Dimensions: 162mm(W) x 26mm(H) x 150mm(D) without wall-mount bracket

**Software Package**
- Windows 10 IoT Enterprise 2016 LTSB Entry 64-bit
- Ubuntu 14.04.5 64-bit
- IoT Studio with dashboard
- OPC UA Server (NISE 50-GCIOT-UB only)

**Certification**
- CE
- FCC Class A
- UL/cUL

**Ordering Information**
- NISE 50-GCIOT (P/N: TBC)
- Google Cloud IoT Ready i4.0 IoT Gateway

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

Google Cloud

Gateway Feature

**Communication Protocols**
- Modbus TCP/RTU
- Most common communication protocol
- Connect up to 5 devices max
- OPC UA Client/Server
  - OPC UA Client for getting data from the device
  - OPC UA Server for access and display data to HMI (NISE 50-GCIOT-UB only)
- MQTT
- A lightweight messaging protocol
- Push data or message to the cloud or database

**Web Configuration**
- IoT Studio
  - Rapid prototyping/engineering tool
  - With IoT Studio, user can easy to configure the NISE50-GCIOT setting
- Remote Access
  - Access and management NISE50-GCIOT anywhere via browser
  - Support popular browser based on HTML5 & CSS3

**Cloud Connectivity Available**
- Google Cloud IoT Core and Cloud IoT Edge
- Service of reliable and secure bidirectional communications between IoT devices and cloud

**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

Google Cloud IoT Ready Solution

We reserve the right to change specifications and product descriptions at any time without prior notice.
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