PRODUCT INTRODUCTION

LM Gateway402-IoT data acquisition gateway, based on a solid hardware platform design, a complete software kernel. Provides 4 RS-485 serial ports, 2 10/100 Mbps Ethernet ports, and a built-in 4G full Netcom module. Provide 1 VGA, 1 HDMI, 1 Audio port. The gateway embeds Modbus, BACnet, DLT645, OPCUA, OPCDA and other data acquisition drivers to provide proprietary protocol driver integration.

The gateway acts as a Modbus RTU, and the Modbus TCP server provides external data.

The gateway and the cloud platform use the instant messaging protocol MQTT to transmit data. To ensure the security of message transmission, SSL encryption can be adopted. The data format is JSON.

HARDWARE SPECIFICATION

LM Gateway402 Hardware parameter：	
CPU	Intel Celeron quad-core 2.00GHz processor, maximum core frequency 2.42GHz, 2MB cache, 10W
RAM	DDR3L 1600MHz 4GB
Graphics card	Integrated Intel HD Graphics core graphics
Serial port	4 fully isolated RS485 interfaces
Network port	2 100M/10M Ethernet interfaces
4G module	Built-in 4G full Netcom module
I/O port	1*VGA/1*HDMI/1*USB3.0/3*USB2.0
Power supply	DC9V～24V
Total Weight	0.7kg
Product Size	160mm×124mm×52mm
Enclosure rating	IP51

DATA ACQUISITION DRIVER

Network port
♣ Modbus TCP Client
♣ Modbus RTU_over_TCP
♣ BACnet IP
♣ Siemens S7-200 Network
♣ Siemens S7-1200 Network
♣ Siemens S7-300 Network
♣ OPC UA
♣ OPC DA

Serial port
♣ Modbus RTU
♣ DLT645-1997,DLT645-2007
♣ CJ188
♣ Siemens S7-200 PPI
♣ MBus_EnergyMeter

DATA SERVICE

♣ As the MQTT client, the gateway connects to the private cloud, Alibaba Cloud, Baidu Cloud, Tencent Cloud, etc., and pushes the data points of the gateway to the cloud through the mechanism of subscription and publishing. The cloud can read and write the front-end device through the gateway.

♣ As the Modbus RTU, Modbus TCP server provides external data, supports 0x, 1x, 3x, 4x, 4 functional areas, supports int16, int32, float32 and various data types of large and small end changes

DATA OPERATION

The data can be calculated by the expression. For example, A represents a collection point, the expression A/100 can be edited, the data is reduced by 100 times, A+0.5, the value is shifted by 0.5, and so on.

DATA STORAGE

The gateway has data storage function, which can realize data storage of I/O points, user points, calculation points and system points. The data of the gateway can only be stored in the TF card.

IoT

IoT data center, which is convenient for users to verify Internet of Things applications such as gateways, cloud services, and WeChat public accounts.

ALARMS AND EVENTS

The Alarms and Events page allows the user to set the trigger condition for the event, trigger the event when the condition is met, and perform the event release when the state transitions from the satisfied condition to the unsatisfied condition.

MISSION PLAN

The user establishes a mission plan that specifies the values for multiple points for the day of the week and time period. Please calibrate the gateway time before using the mission planning function

JavaScript EDITING

JavaScript script editor built-in function, user can customize logic control by editing script language

CONFIGURING THE GATEWAY

1, Power the gateway;

2. Connect the LM Gateway203 data collection gateway to the computer or switch using a crossover cable; (note that the gateway and the computer are in the same network segment);

3. Use the tool software to configure the data acquisition gateway. For the operation, see the configuration manual of the configuration tool.

Download configuration tool

CONTACT US

Huangshan Luomi Measurement and Control Technology Co., Ltd.
Sun Chen
18049040679
1926608609@qq.com

www.lmgateway.com

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