LM Gateway 罗米®

LM Gateway414H-IoT

IoT Gateway

Product Features

- Quad -core A9, clocked at 1.4GHz
- 4 x fully isolated RS485 ports
- 2 x 100M/10M Ethernet ports
- Support remote monitoring
- Support firmware upgrade
- Support edge computing
- Support alarm setting and push
- Support JavaScript script editing for logical control
- Support data storage and WebScada configuration
- Working temperature: -40 ~ 80℃
- Supports up to 10,000 data points

Product Introduction

LM Gateway414H-1oT is a core connection device for industrial IoT scenarios, acting as a bridge between industrial equipment and upper-level systems (such as cloud platforms, SCADA systems, MES systems, etc.) . It provides users with a unified data interface and protocol through reliable data collection, analysis, and transmission capabilities, and is an ideal choice for digital factories, smart buildings, and energy management. The IoT gateway integrates time series databases and webscada functions, providing components for developing edge storage and data monitoring based on the gateway.

Product Specifications

Hardware Parameters	Memory	1G DDR3 high performance memory
	Nand Flash	MLC eMMC onboard is 8GByte eMMC
	Serial Port	4 * RS485
	Network port	2 * LAN port
	USB Port	1 * USB HOST interface
	Power Supply	DC9V ~ 48V/AC12V ~ 30V , supports anti-reverse connection, lightning protection, overcurrent protection, etc.
	LED Indicator	POWER , SYS , serial port sending and receiving instructions
	Enclosure Protection Level	IP50
	Power Consumption	The maximum average power consumption of the whole machine is ≤ 5W
	Mechanical Installation	DIN rail slot fixing
Environmental Parameters	Working Relative Humidity	20 ~ 90 % No condensation
	Storage and Transportation Relative Humidity	15 % ~ 95 % No condensation

Northbound Data Services

The gateway provides a variety of data services for SCADA , power, BA and other automatic control systems.

- Modbus Services
- BACnet Services
- OPC UA Services
- IEC104 Services
- OPC XML-DA Server
- S7 Server

IoT

The gateway communicates with the cloud server via the MQTT protocol.

- Alink
- IoTDA
- Amazon
- Private Cloud
- LM ThingsIoT Value-added Cloud Service

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List of southbound data collection drivers (supporting customization of privatization protocols)

	Data Acquisition Driver	Serial Port	Network port
Meter	Modbus	Modbus RTU	Modbus TCP
		ModbusAscii	Modbus RTU_over_TCP
		ModbusRTUBroadcast	
		ModbusRTU Monitoring	
		ModbusRTU Service	
	DLT645	DLT645-1997	DLT645_over_TCP
		DLT645-2007	
		DLT645.98	
		DLT645 Monitor	
	CJ188	CJ188	CJ188_over_TCP
	Mbus	MBus_EnergyMeter	
		MBus_EN1434	
PLC	Mitsubishi	Mitsubishi Fx3U	MC_Qna-3EBinary
		Mitsubishi Fx485	MC_Qna-1EBinary
			EtherNet /IP CIP
	Siemens	Siemens S7-200 PPI	Siemens S7-200 Network
			Siemens S7-300 Network
			Siemens S7-400 Network
			Siemens S7-1200 Network
			Siemens S7-1500 Network
			FetchWrite
	AB	Allen_Bradley_DF1	AB NET
	Omron	HOSTLINK-FINS	OMRON_FINS
		HOSTLINK-CMODE	
	Matsushita	Mewtocol	EtherNet /IP CIP
	Yokogawa		Yokogawa PLC
	FUJI		FUJI_SPH_NET
	KEYENCE		KEYENCE host link communication
OPC			OPC UA
			OPC DA
			OPC XML DA
IEC			IEC104
			IEC61850
CNC			FANUC
			Kaneti
			Siemens
Smart Buildings	BACnet	BACnet MS/TP	BACnet IP
		BACnet Routing	
		Hitachi Elevator	
Smart lighting			KNX IP
Database			SQL Server
			MySQL
IT Interface			MQTT Client
			HTTP Client

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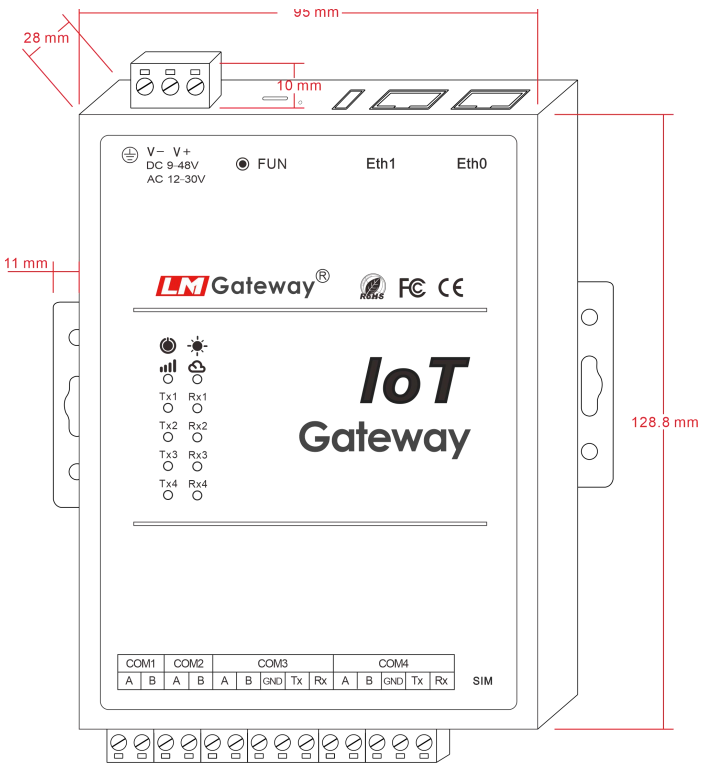
Gateway dimensions and installation diagram

- Back rail and mounting ear installation



- Side rail installation