



Product Features

- ARM Cortex-A7 , with a main frequency of 1.1GHz
- 1 x fully isolated RS485 (RS232 multiplexed) interface
- 1 x 100M/10M Ethernet port
- Support 4G routing
- Support remote monitoring
- Support firmware upgrade
- Support alarm setting and push
- Support edge computing
- Support JavaScript script editing for logical control
- Operating temperature: -40 ~ 85°C
- Supports up to 1024 data points



Product Introduction

LM Gateway103-1oTlite 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.

Product Specifications

Hardware Parameters	Memory	64MB DDR2 high performance memory
	Nand Flash	256MByte SLC Flash
	Serial Port	1 * RS485
	Network port	1 * 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	IP50
	Power Consumption	The maximum average power consumption of the whole machine is $\leq 5W$. In extreme cases of wireless data transmission, the instantaneous peak power consumption may reach 10W . The effective output power of the power supply provided by the user must be $> 10W$.
Environmental Parameters	Mechanical Installation	DIN rail slot fixing
	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

IoT

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

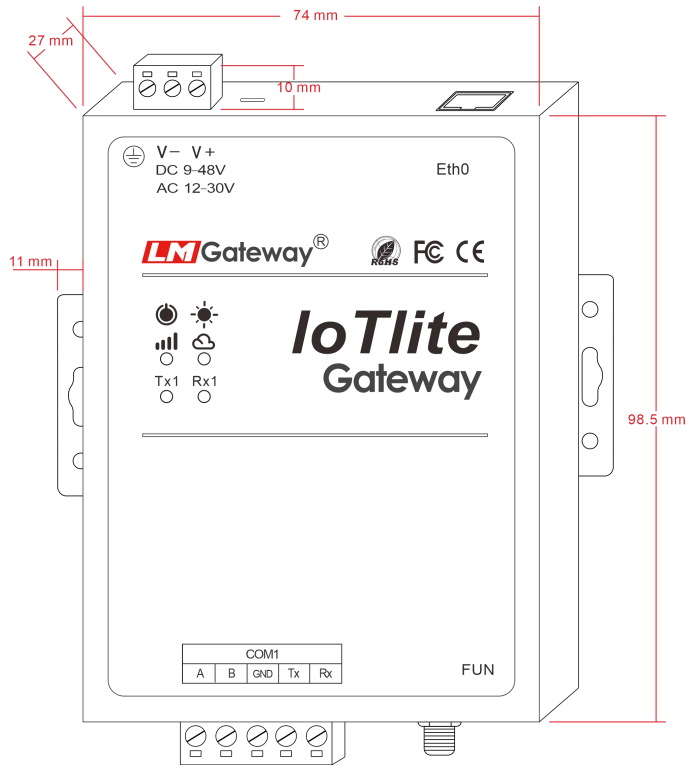
- Alink
- IoTDA
- Amazon
- Private Cloud
- LM ThingsIoT Value-added Cloud Service

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

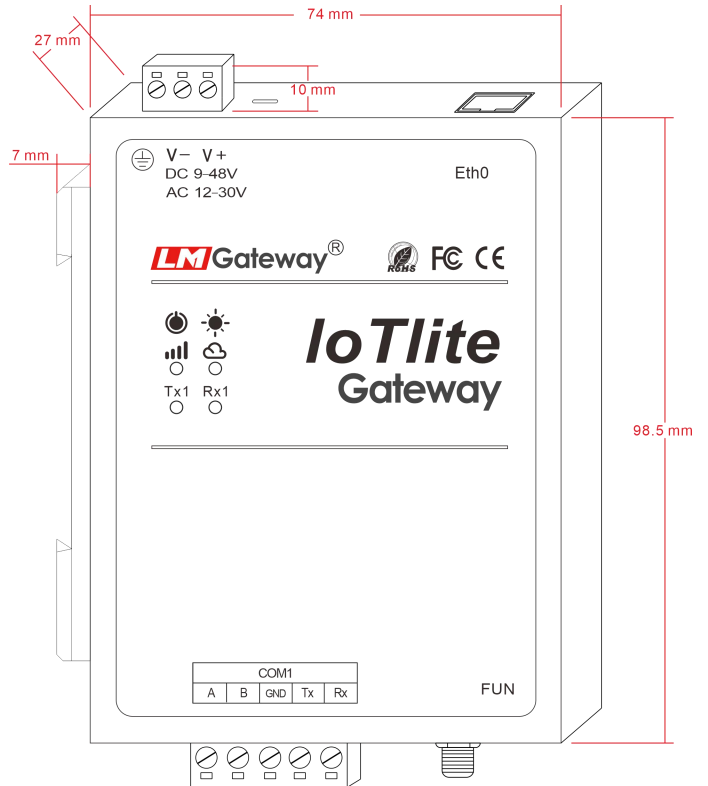
	Data acquisition driver	Serial Port	Network port	
meter	Modbus	Modbus RTU	Modbus TCP	
		ModbusAscii	Modbus RTU_over_TCP	
		ModbusRTUBroadcast		
		ModbusRTU Monitoring		
		ModbusRTU Service		
	DLT645	DLT645-1997	DLT645_over_TCP	
		DLT645-2007		
		DLT645.98		
		DLT645 Monitor		
	CJ188	CJ188	CJ188_over_TCP	
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		
Rich Machine		FUJI_SPH_NET		
KEYENCE		KEYENCE host link communication		
OPC			OPC UA	
			OPC DA	
			OPC XML DA	
IEC			IEC104	
			IEC61850	
Smart Buildings	BACnet	BACnet MS/TP	BACnet IP	
		BACnet Routing		
		Hitachi Elevator		
IT Interface			MQTT Client	
			HTTP Client	

Gateway dimensions and installation diagram

- Back rail and mounting ear installation



- Side rail installation



IoT Gateway Product Suppliers

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