



## 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 256 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 ≤ 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.

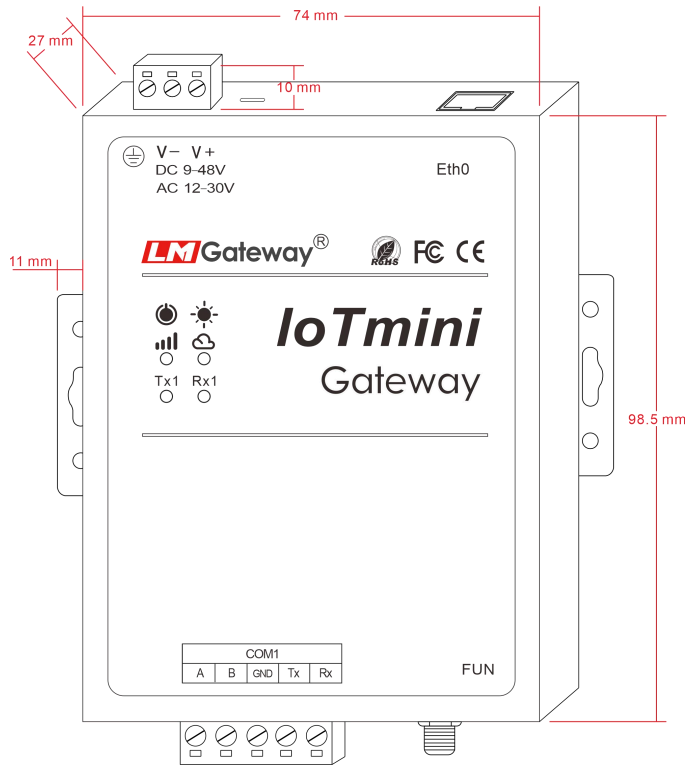
- Alink
- IoTDA
- Amazon
- Private Cloud
- LM ThingsIoT Value-added Cloud Service

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

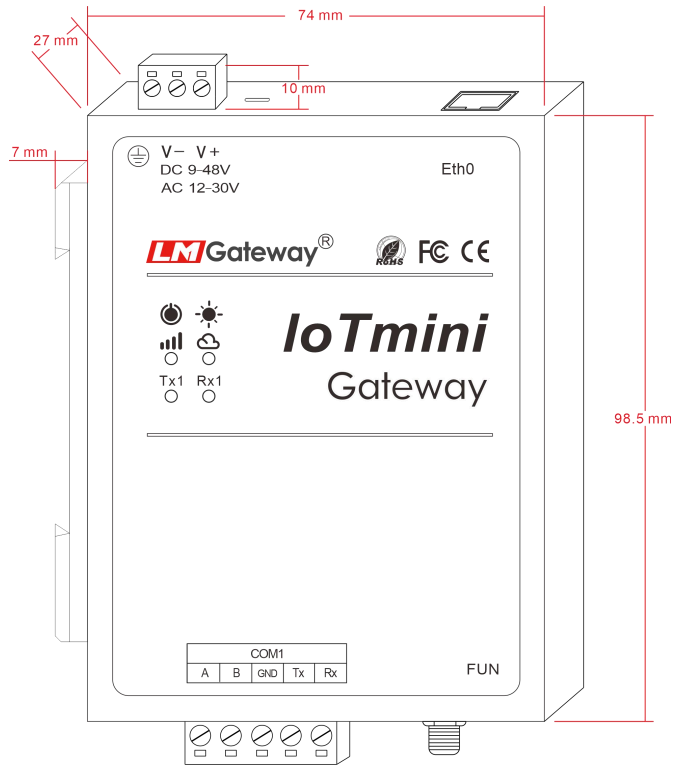
	Data acquisition driver	Serial Port	Network port	
meter	Modbus	Modbus RTU	Modbus TCP	
		ModbusAscii	Modbus RTU_over_TCP	
		ModbusRTUBroadcast		
		ModbusRTU Monitoring		
		ModbusRTU Service		
	DLT645	DLT645-1997	DLT645_over_TCP	
		DLT645-2007		
		DLT645.98		
		DLT645 Monitor		
	CJ188	CJ188	CJ188_over_TCP	
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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