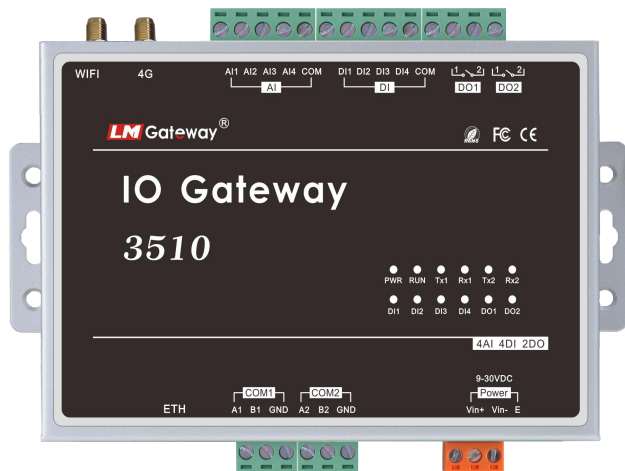


LM Gateway3510-IoTlite



Product Features

- Triple-core Cortex-A7 + Cortex-M0 , with a maximum clock speed of 1.5GHz.
- 2 x Fully Isolated RS485 Interfaces
- 1 x 100M/10M Ethernet interface
- 4AI+4DI+2DO
- Multi-protocol support: Modbus , BACnet , OPC UA , IEC104 , DLT/645 , etc.
- Supports MQTT cloud communication
- Supports online monitoring via web services
- Supports alarm settings and push notifications
- Support edge computing
- Supports JavaScript scripts for logic control
- Supports remote monitoring and firmware upgrades
- Supports counting function
- Operating temperature: -40 ~ 85°C
- Supports 4G and WIFI
- Supports a maximum of 1024 data points



Product Specifications

Hardware parameters	Certification	RoHS , CE , FCC Class A
	Memory	256MB
	Nand Flash	256MB Nand Flash
	AI	0~20mA , 4~20mA , and 0~10VDC are all acceptable; 10-bit resolution .
	DI	Optically isolated digital signal input, PNP input, 12-30V represents logic signal 1.
	DO	2- channel relays, normally open contacts, 7A (AC250V) and 5A (DC30V)
	WIFI module	2.4GHz & 5.8GHz
	power supply	DC9V ~ 30V , supports reverse connection protection, lightning protection, overcurrent protection, etc.
	LED indicator light	POWER , SYS , serial port transmit/receive indicators
	Enclosure protection rating	IP50
	Power consumption	The maximum average power consumption of the entire device is ≤ 5W . Under extreme conditions, the instantaneous peak power consumption of wireless data transmission may reach 10W . The effective output power of the power supply provided by the user must be >10W.
	Installation method	Supports DIN rail mounting
	SIM card	Micro SIM card (12 × 15mm)
Dimension	106*90*57mm	
I/O interface	serial port	2xRS485
	network port	1xLAN port
	Power connector	1x3-pin terminal
Environmental parameters	Operating relative humidity	20-90 % No condensation
	Relative humidity during storage and transportation	15 % -95 % No condensation

Northbound Data Services

The gateway provides various data services for automatic control systems such as SCADA , power, and BA .

- Modbus service
- BACnet service
- OPC UA service
- IEC104 service
- OPC XML-DA Server

IoT

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

- Standard MQTT client
- Alink
- IoTDA
- Amazon
- Customized private cloud connection
- LM ThingsIoT Value-Added Cloud Services

LM Gateway3510-IoTlite

List of southbound data acquisition drivers (supports customization of private protocols)

	Data acquisition driver	serial port	network port
meter	Modbus	Modbus RTU	Modbus TCP
		ModbusAscii	Modbus RTU_over_TCP
		ModbusRTUBroadcast	
		Modbus RTU monitoring	
		Modbus RTU service	
	DLT645	DLT645-1997	DLT645_over_TCP
		DLT645-2007	
		DLT645.98	
		DLT645 monitoring	
	CJ188	CJ188	CJ188_over_TCP
Mbus	MBus_EnergyMeter		
	MBus_EN1434		
Flow meter	LJS ZLJS Flow Meter		
	Tianxin Flow Meter	Tianxin Flow Meter	
PLC	Mitsubishi	Mitsubishi FX3U	MC_Qna-3EBinary
		Mitsubishi FX485	MC_Qna-1EBinary
			EtherNet /IP CIP
	Siemens	Siemens S7-200 PPI	Siemens S7
			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
	Yonghong	Fatek	Fatek
Huichuan		H5U	
Beckhoff		ads	
OPC			OPC UA
			OPC DA
			OPC XML DA
IEC			IEC104
			IEC61850
Smart Building	BACnet	BACnet MS/TP	BACnet IP
		BACnet Router	
		Hitachi Elevator	
		Duya Curtains	
	EBM		
Smart lighting			KNX IP
ups		MegaTec Three-Phase UPS	
		SANTAK UPS	
Fire alarm		GST Gulf Controller	
Hydrology and Environmental Protection	HJ/T 212	HJ/T 212 Serial Port Monitoring	HJ/T 212 Network Port Monitoring
			Hydrological monitoring SL651-2014
IT Interface			MQTT client
			HTTP client