



Communication Expert
of Industrial IOT

Modular Edge IoT Gateway

M300



Introduction

M300 is a high-performance and scalable edge IOT gateway. This device integrates edge collection, data calculation, data reading and writing, active reporting, linkage control, IO collection and control and other functions. The collection protocol includes standard Modbus protocol and a variety of common PLC protocols, as well as industry-specific protocols. At the same time, the product also has routing and VPN as well as graphical programming functions to ensure data transmission security. Using graphical programming, users can develop independently to achieve the required functions.

M300 is embedded in Linux kernel, with a main frequency of up to 1.2Ghz. It can access the Internet via Ethernet port, ADSL and LTE cat4 cellular network to achieve easy network deployment.

It is widely used in various industrial intelligent solutions such as industrial robot, smart factories, smart agriculture, smart water management system etc.

Specifications

Power supply	
Power input	DC 9~36V
Working current	--
Serial port	
No.	2*serial port Serial port 1: RS232/485 Serial port 2: RS485
Band rate	600~230400bps, user-defined baud rate is supported
Data bits	7, 8
Stop bits	1, 2
Parity	None, Even, Odd
IO interface	
DI	2*DI, 0 - 2 V detected as logic low, 9 - 36 V detected as logic high
DO	2*Relays, DC contacts rating @R(at resistive load)10A / 28V DC AC contacts rating @R(at resistive load)10A / 277V AC,NO AC contacts rating @R(at resistive load)5A /250V AC, NC
AI	2 x Analog input 4-20mA
Physical characteristics	
Dimension	79.6x 58 x110 (mm)
Housing	ABS housing, IP30 protection
Installation	Din rail mounting, wall mounting
EMC protection	
ESD	IEC61000-4-2,Level 3,class B,contact 6KV,air 8KV
Surge	IEC61000-4-5,Level 3,class B
EFT	IEC61000-4-4,Level 3,class B
Indicator	
POW	ON: Gateway is powered up OFF: Gateway is not power up
WORK	When the device is working properly, it blinks for 1s frequency
NET	Blinking when the wan connects to internet OFF when there is no network
DATA	Blinking when serial port is transmitting data
DO status	Light on, the channel output is activated
DI status	Light on, the channel is activated by input signal
Network	
Cellular	LTE Cat4, Global Frequency
Ethernet	1*WAN/LAN + 1*LAN 10/100 Mbps, compliance IEEE 802.3, IEEE 802.3u standards, supports auto MDI/MDIX
Cellular	
Frequency	TDD-LTE: B34/38/39/40/41 FDD-LTE: B1/2/3/4/5/7/8/12/13/18/19/20/25/26/28/66 WCDMA: B1/2/4/5/6/8/19 GSM/EDGE:B2/3/5/8
SIM	1*Micro SIM
Antenna	1*SMA-Female
Software	