

# **CWT-MB308F**

## **Modbus I O Module**

### **manual**

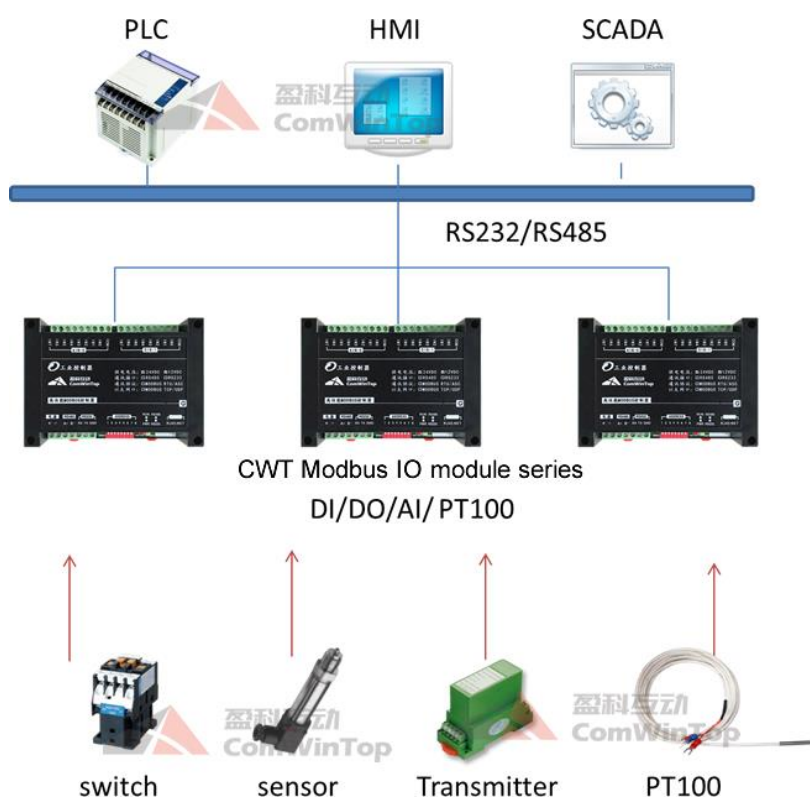
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# 1 OVERVIEW

Model	Options	IO Port	Communication Port	Protocol
CWT-MB308F	I-V-485	32AI (4-20mA/0-10V)	RS485	Modbus RTU
	I-V-485-232	32AI (4-20mA/0-10V)	RS485+RS232	Modbus RTU
	I-V-E	32AI (4-20mA/0-10V)	Ethernet	Modbus TCP
	I-V-E-485	32AI (4-20mA/0-10V)	Ethernet+RS485	Modbus TCP, Modbus RTU
	I-V-E-485-232	32AI (4-20mA/0-10V)	Ethernet+RS485+RS232	Modbus TCP, Modbus RTU

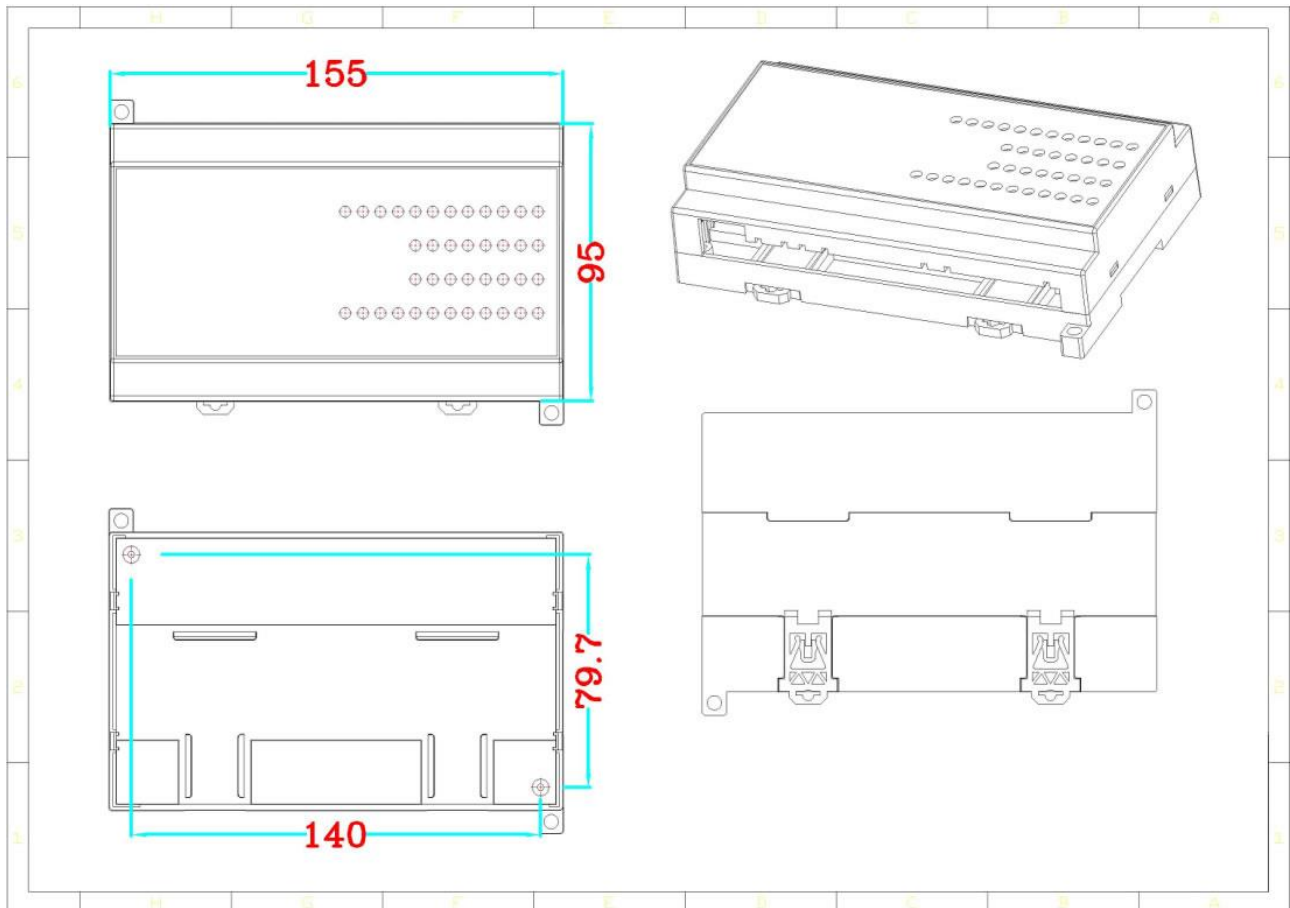


## 1.1 System Parameter

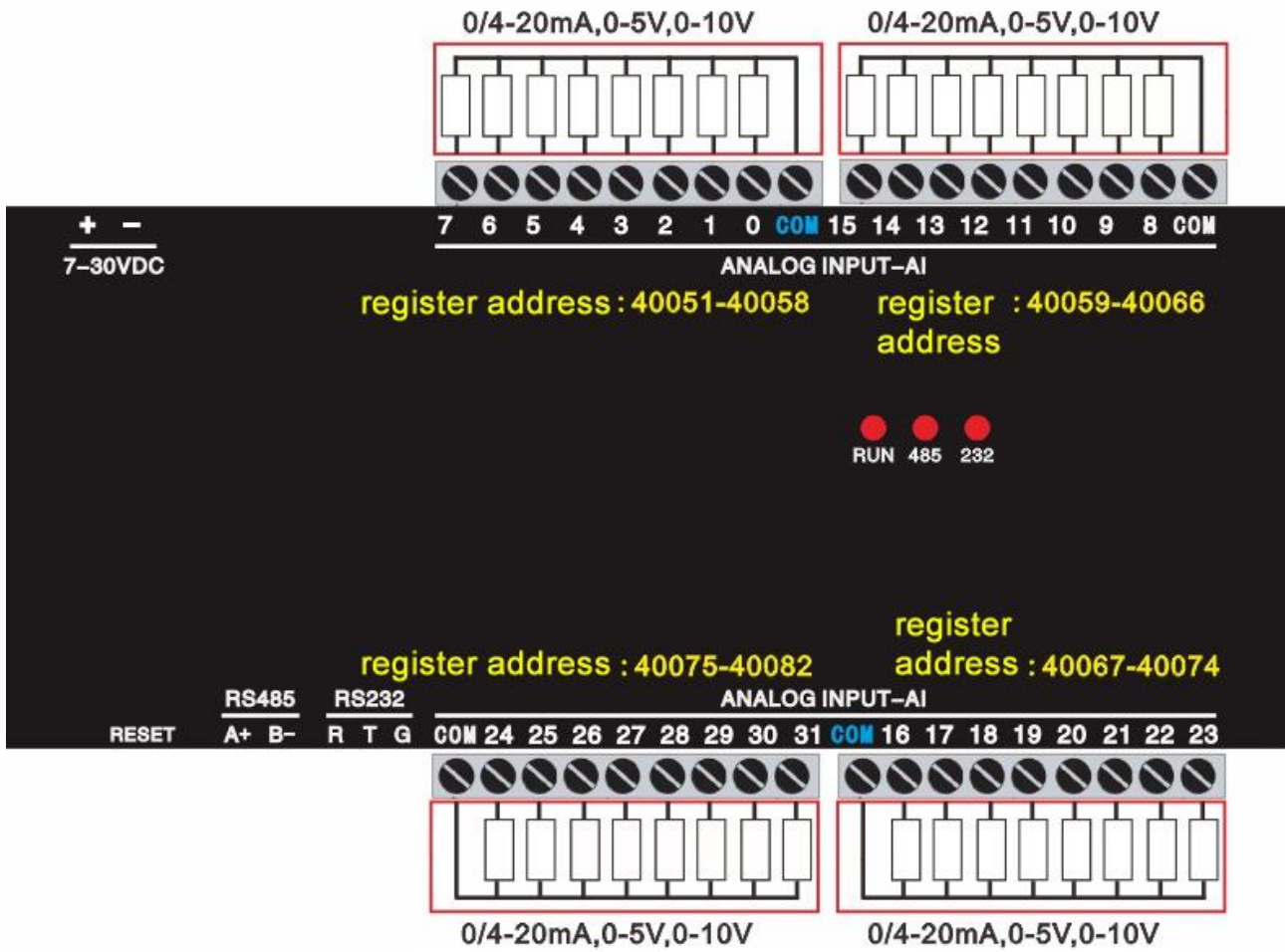
CPU	32-bit ATMEL ARM, 72MHZ
OS	GCOS, 10ms scheduling mechanism
Power	7-35VDC @2W, power supply reverse protection, isolation design
Installation	DIN rail mounting or screw fixing 
Working Environment	-40℃~85℃, 5%~95%RH(non-condensing)
Protection	IP20
Watchdog	1.5m guard

## 2 INSTALL

### 2.1 size



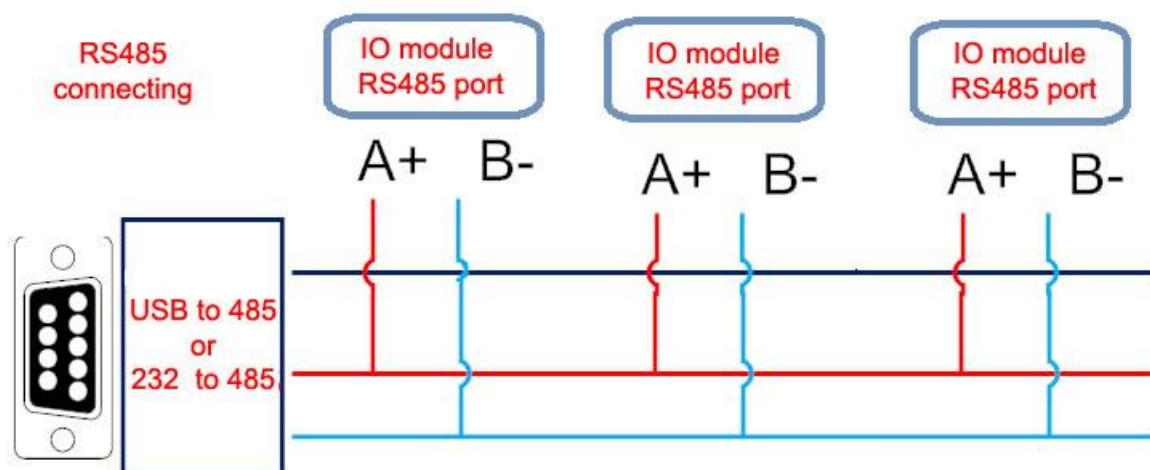
## 2.2 wiring



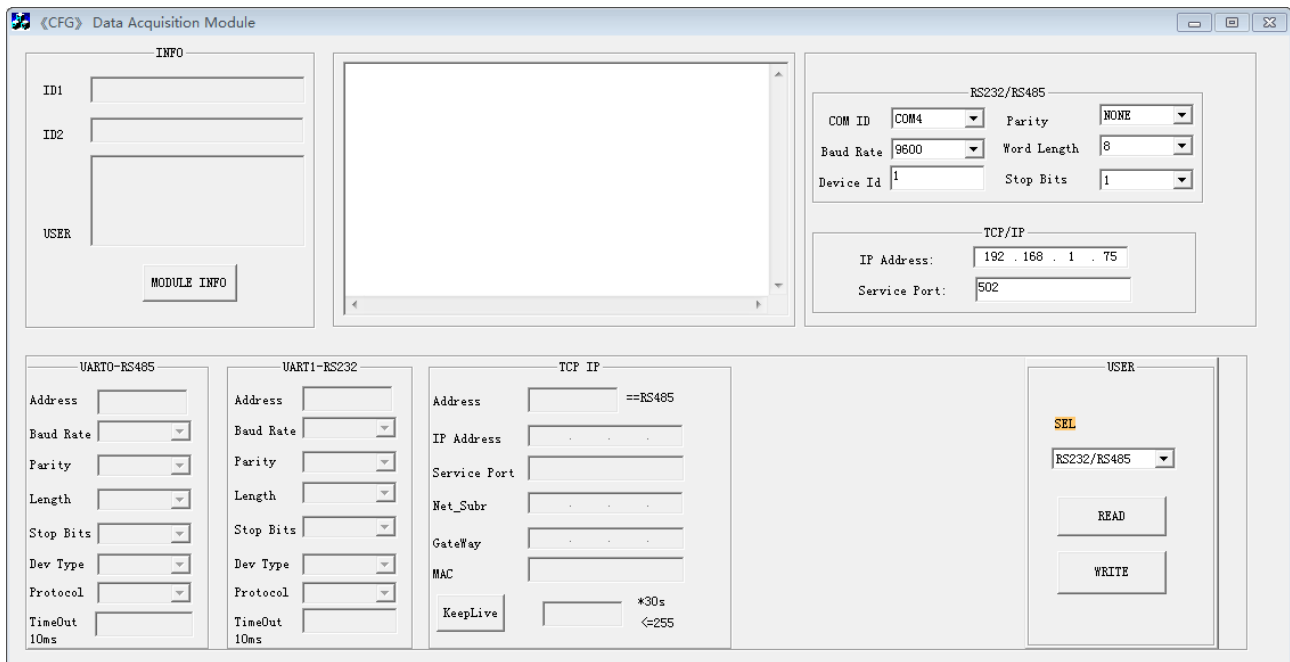
### 3 CONFIGURATION

#### 3.1 RS232/RS485

Port type	1RS485 & 1RS232
Protection	DCDC isolation design, 2500V lightning protection, ESD, overvoltage, overcurrent protection
Baud rate	1200~115200, <b>default 9600</b>
Parity	Even, Odd, None
start bit	1 bit
data bits	8 bit
Stopbits	1,2bits
Protocol	MODBUS RTU
default	9600.N.8.1, slave id is 1



### 3.2 Configuration software



Set salve ID, default is 1

### 3.3 Ethernet

Port type	RJ45
Communicate protocol	MODBUS TCP、MODBUS UDP
Communicate rate	1000 times/s
bandwidth	10M/100Mbps
IP address	192.168.1.75
Port	502

4 DESCRIPTION OF IO CHANNEL

4.1 Analog input

Input type	4~20mA<default>, support: 0~20mA/0~5/1~5/0~10V (need open house to jumper)
Precision	0.1%, 16 bit
Refresh rate	0.01m

Modbus Register map

channel	Register address	Function code	Format	Scaling
AI0-AI31	40051-40082	03	UINT16	0.001

AI wiring diagram

