

# NT-5002-1 MODBUS GPRS RTU



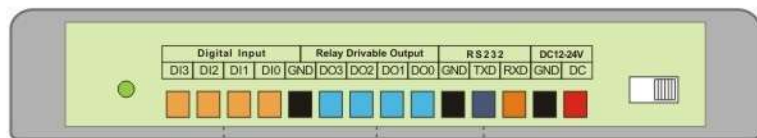
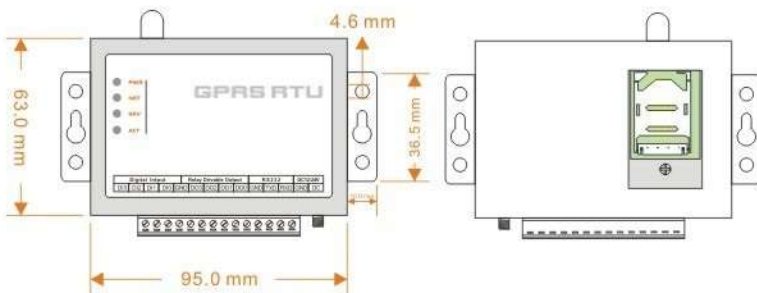
Reliable GPRS connection providing fast and cost-effective long-range wireless communication

Monitor 4 digital inputs  
Control 4 outputs  
Monitor modbus device via GPRS & SMS

## Specifications

DC Power supply	12-24V DC (Standard adapter: DC 12V/1.5A)
Power consumption	12V input Max. 150mA/Average 50mA
Frequency range	Quad-frequency 900/1800/850/1900MHz
SIM Card	Supporting 3V&1.8V SIM Card
Antenna	50 Ω SMA Antenna interface
Communication interface	RS-232C, MODBUS RTU(master or slave)
Working temperature	-30°C ~ +70°C
Working humidity	Relative humidity 95%
Digital input	4 Digital inputs (dry contact)
Output	4 Drivable relay outputs (open-collector outputs)
Output drive voltage	Equal to input DC voltage
Output drive power	Drive voltage ≤35V, drive current ≤500mA
Exterior dimension	95×63×25mm
Weight	256G

## Applications



- |   |   |   |
|---|---|---|
| <h3>4 digital inputs features</h3> <ul style="list-style-type: none"> <li>Upload data to server when inputs are triggered</li> <li>Upload input status to server on schedule</li> <li>Remote query inputs status by GPRS or SMS</li> <li>Can be reuse as pulse counter input</li> <li>Support SMS alarm when inputs are triggered</li> <li>NO or NC type can be preset</li> <li>Configurable for alarm and recover sms</li> </ul> | <h3>4 Outputs features</h3> <ul style="list-style-type: none"> <li>Multiple output type can be preset</li> <li>Remote On/Off/Pulse outputs via GPRS or SMS</li> <li>Configurable for pulse time</li> <li>Remote query outputs status by GPRS or SMS</li> <li>Outputs can be activated by alarm</li> <li>Outputs can be activated by call</li> <li>Outputs can be activated on schedule</li> </ul> | <h3>Modbus features</h3> <ul style="list-style-type: none"> <li>Modbus RTU protocol on Rs232, can monitor modbus slave device</li> <li>Read or write 32 registers (coil or input registers) on Modbus via GPRS or SMS</li> <li>Upload data to server when coils are triggered</li> <li>Can preset normal range for input registers, upload data to server when above the normal range</li> <li>Support SMS operation (read or write registers)</li> </ul> |
|---|---|---|

## Advance features

- Support ring call when alarm
- Temperature sensor (optional)
- Internal battery and providing power cut off alarm
- Easy used GUI configure software
- Adopted highly integrated industrial CPU
- Reliable performance with built-in double watchdog
- Low maintenance, 24×7 operation

## How to setup

- Can be setup by free PC software via serial port
- Can be setup by cell phone via sms commands

## Where does GPRS RTU upload data to

- Support connects 4 servers, the servers must connect internet and have static public IP address or Dynamic Domain name
- GPRS Transmission base on TCP/IP
- Support modbus TCP protocol or CWT\_IO protocol

## When does GPRS RTU upload data

- GPRS RTU start up
- Digital inputs are triggered
- Modbus alarm
- On schedule(day/minute/second)
- Query by server

## SMS features

- Preset 10 phone numbers(can be distributed authority)
- Time stamped in alarm or recover messages
- Support remote setting and control via sms commands