

CWT5010 RTU

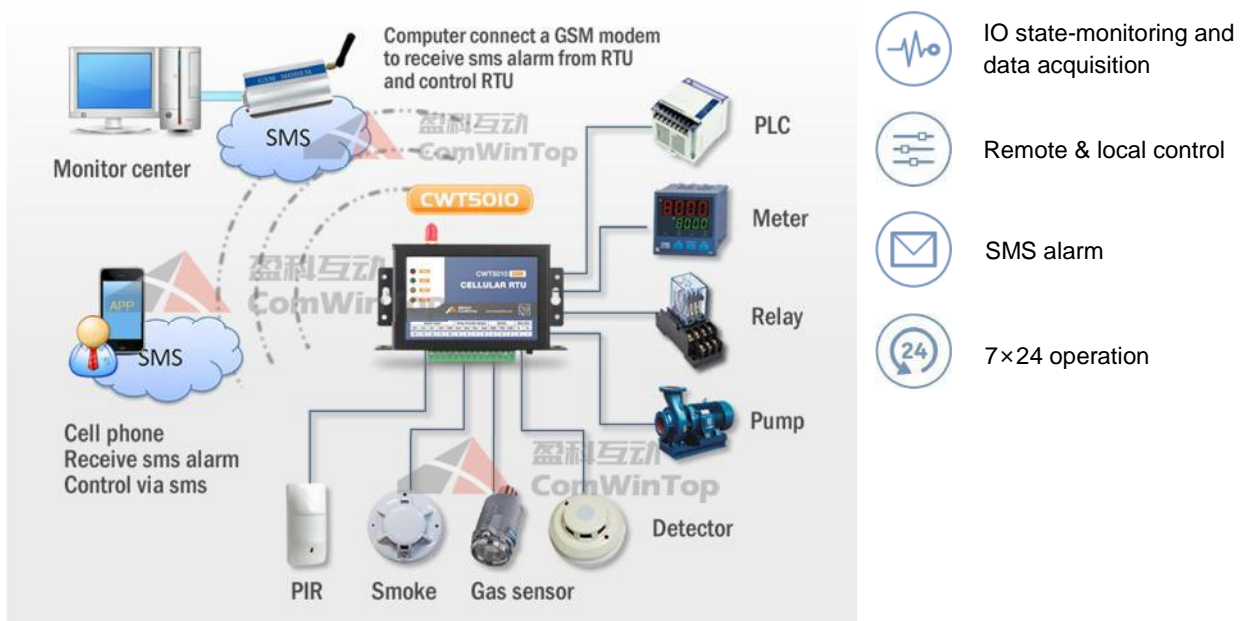
GSM/3G/4G optional

Data acquisition, transmission, control all in



Product Profile V2.0

CWT5010 RTU with 4 DI, 4 DO, RS232 standard electrical interface can connect various industrial equipment, such as PLC, meters, sensors, electrical switches. It monitors the industrial system real-time running status and data, as well as constructs the remote device to a proprietary central computer and mobile phones through the sms communication. It efficiently acquires the remote equipment operating parameters and process management, can be widely used in industrial automatic control, base station / computer room monitoring, environmental monitoring, water conservancy project, power industries, agriculture, etc.



System Features

- Adopted highly integrated industrial 32-bit ARM MCU
- Reliable performance with built-in double watchdog, 24×7 operation
- With signal filtering mechanisms
- Network-reconnect and retransmission to ensure data accurately transmit
- Update RTC automatically or manually, clock source support Sms, NTP, CwtIO Server

- Can set multiple timers(second, minute, day, week, month) to execute actions, e.g. output, upload data, change setting
- Event-based linkage programming, e.g. alarm linkage output
- Provide configure software, visual programming, over 100 parameters can be set
- Inside temperature optional, can set high or low to alarm
- Optional inside battery that life is 8-20 hours, cellular module Intelligent sleep when power lost

Port Features

Port	Qty	Features
DI (digital input)	4	<ul style="list-style-type: none"> • Accept dry contact • Can be configured as pulse counter input (counting frequency: 10Hz)
DO (digital output)	4	<ul style="list-style-type: none"> • Transistor output (drive voltage=power supply voltage, Drive current≤500mA) • Remote or local event activate DO on/off/pulse • Remember status when power lost
RS232	1	<ul style="list-style-type: none"> • Configuration port

Communication Features



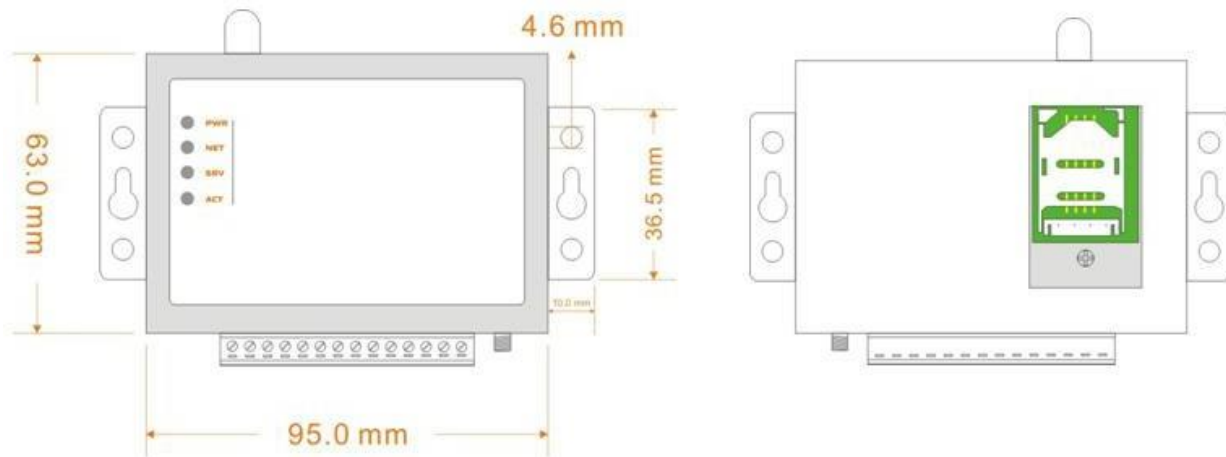
SMS
Communication

- Preset 10 phone numbers (support distribute authority to receive sms)
- Sms alarm when any IO channel triggered or out of preset normal range
- Editable alarm and recover sms with time stamp
- Query any IO channel's status or value via sms command
- Control output via sms command
- Sms report any IO channel's status or value on schedule
- Remote setting via sms commands
- Can query SIM card balance, sms forward
- support power lost sms alarm and recover sms(works with inside battery)

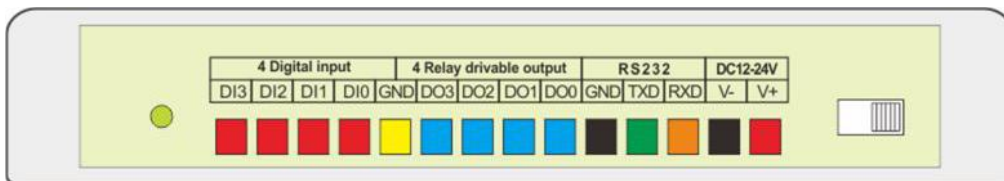
Specifications

Core	MCU	Cortex M3 32-bit ARM
Power	Power supply	9-28V DC (Standard adapter: DC 12V/1.5A)
	Consumption	12V input Max. 150mA/Average 50mA
Network	Wireless Network	Default: GSM/GPRS (4 band 850/900/1800/1900Mhz) Option: WCDMA (3G), FDD LTE(4G)
IO channel	Digital input(DI)	4 channels, Dry contact trigger
	Digital output(DO)	4 channels, transistor output Output drive voltage=power supply DC voltage Drive current ≤500mA
Series port	RS232	1 port, baud rate: 1200~115200dps, default 9600,n,8,1
Other interface	SIM/UIM	Standard user card interface
	Antenna	Standard SMA female interface (50Ω)
Others	Battery	Optional lithium-polymer, 500mAh/3.7V, life:8-20 hours
Working Environment	temperature	-30℃~+70℃
	humidity	5~95%(non-condensing)
Physical	Terminals	1×14pin 3.81mm spacing, pluggable
	Housing	Providing IP30 protection
	Dimension	95×63×25mm
	Weight	256g

Size diagram



Terminals figure



Package list

RTUx1, antennax1, Standard adapter: DC 12V/1.5Ax1, serial cablex1

Free Configure Software

- No programming! set parameter by visual interface
 - Can save config file, one click finish config
 - Over 100 parameters can be set, flexible!
- Meeting various industrial requirements

