

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 automatically or manually, clock source support Sms, NTP, Cloud 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
AI (analog input)	4	<ul style="list-style-type: none"> Accept 4-20mA (option: 0-5V), Sampling frequency: 33Hz, 16-bit precision) Convert signal to actual measure value, support adjustment Configurable parameters for signal acquisition, alarm, data communication Detect connect or disconnect to alarm
TI (temperature& Humidity input)	4	<ul style="list-style-type: none"> Configurable parameters for alarm (high or lower), record, data communication, adjustment Fahrenheit or centigrade units for temperature Detect probe connect or disconnect to alarm
RS232	1	<ul style="list-style-type: none"> Configuration port (baud rate: 1200~115200dps, default 9600,n,8,1)

Communication features



Wireless network communication

- | Option network: GPRS, 3G, 4G, Wi-Fi
- | TCP/IP connect at most 4 servers (support Static IP address or domain)
- | Events (e.g. alarm, timer) trigger upload data
- | Communication protocol: Modbus TCP, http post, Cwt_IO (two-way communication)
- | Support two-way data transparent transmission with RS232



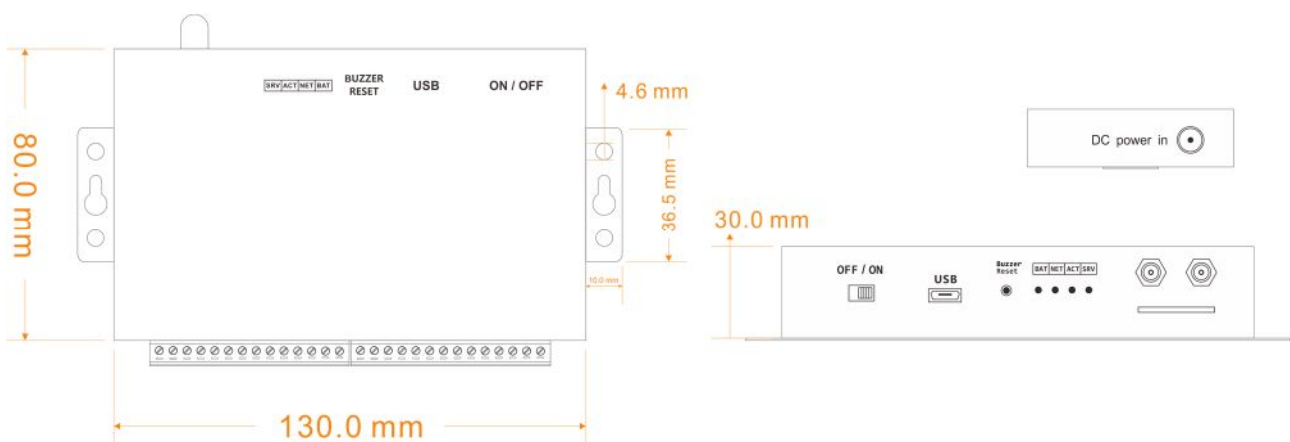
SMS
Communication
(available for cellular version)

- | 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)

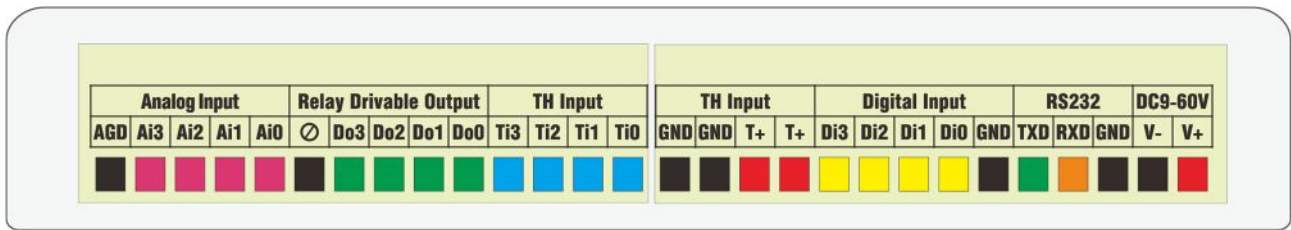
Specifications

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	Either GPRS (or 3G/4G, need simcard) or Wi-Fi (Not need simcard) Default: GSM/GPRS (4 band 850/900/1800/1900Mhz) Option: WCDMA (3G), FDD LTE(4G) Option: Wi-Fi, 802.11 b/g security WEP/WPA/WPA2
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
	Analog Input (AI)	4 channels, receive 4-20mA (option: 0-5V), Sampling frequency: 33Hz, 16-bit precision, Dual digital filters for anti-noise
	Temp Humi Input (TI)	4 channels, accept CWT temperature humidity probe
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, 1000mAh/3.7V, life:8-20 hours
	GPS module	Optional
Working Environment	temperature	-30°C ~ +70°C
	humidity	5 ~ 95%(non-condensing)
Physical	Terminals	2×14pin 3.81mm spacing, pluggable
	Housing	Providing IP30 protection
	Dimension	130×80×30mm
	Weight	370g

Size diagram



Terminals



Package list

RTU×1, antenna×1, Standard adapter: DC 12V/1.5A×1, serial cable×1, USB cable×1

Configure Software

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



Cloud Summary

Cloud is an industrial equipment management system based on internet, cloud computing.

With SDL, Cloud can get status, value, position of remote industrial equipment, built a very complete M2M, M2H industrial ecosystem.

Cloud can manage thousands SDL remotely, display all industrial equipment real-time data, location tracking, control device, send commands and store data, analysis data, export data. Operations are based on internet, just login cloud via PC browser or cell phone app to do.

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