



SHJ Electronic Co., Ltd.

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SHJ electronic Co.,Ltd., established in 2005 in Shanghai, is a manufacturer of low cost control systems. We are specialized in Modbus, Modbus/TCPIP protocol, RS485, CAN, Zigbee and Ethernet hardware. We can do such signal inputs and outputs as 0-10V, 0-5V, 0-20mA, dry contact, pulse, frequency inputs and open-collector, relay, 24VAC triac, 0-10V, 0-5V, 0-20mA outputs.

We also can design a close loop controller with a small PID control. Maybe the IO modules we developed do not match your project requirements, but we can design and develop modules/products with any combination of listed signals inputs/outputs and listed communication method.

Thanks to our low overhead and good base of existing technology, the engineering work can often be absorbed as part of the first small order. Longer term development projects can be quoted according to your specs and always come with full source code & IP rights.



RS485 Modules

— S3000 Series

S3100: 8 channels 0- 5V, 0 -10V, 4 - 20mA analog inputs, 12bits ADC

Descriptions:

S3100 is a high quality and low cost analog data acquisition module. We keep contacting with customer when we develop this module to ensure it suit for field application. S3100 has total 8 channels input, each input has lightning and surge protection. Output use RS232 or RS485 BUS, both of them has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the Rs485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V, 4-20mA,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 8 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- Can detect RS232 or RS485 automatically, no need jumper
- A lot of spare FLASH can be used to store user's parameters
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP.

Technical Data:

Resolution----- 12-bit
Input channel number----- 8
Input range----- 0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection----- Lightning,static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS----- RS232/RS485(detect automatically)
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3101: 12 channels 0-5V,NTC 10K thermistor,dry contact inputs,12Bits,100K ADC

Descriptions:

S3101 is a high quality and low cost analog data acquisition module. S3101 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of,0-5V,NTC 10K thermistor and dry contact
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP.

Technical Data:

Resolution----- 12-bit
Input channel number----- 12
Input range----- 0~5V,10K thermistor, dry contact
Input protection----- Lightning,static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS----- Isolated RS485
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3102: 12 channels 0-10V inputs, 12Bits, 100K ADC

Descriptions:

S3102 is a high quality and low cost analog data acquisition module. S3102 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input is 0-10V, fixed
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP.

Technical Data:

Resolution-----	12-bit
Input channel number-----	12
Input range-----	0~10V
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS-----	Isolated RS485
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3103: 12 channels 4-20mA inputs, 12 Bits, 100K ADC

Descriptions:

S3103 is a high quality and low cost analog data acquisition module. S3103 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input is 4-20mA, fixed
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP.

Technical Data:

Resolution----- 12-bit
Input channel number----- 12
Input range----- 4~20mA
Input protection----- Lightning, static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS----- Isolated RS485
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3200 : 8 channels 0- 5V,0 -10V,4 - 20mA analog inputs, 16bits ADC

Descriptions:

S3200 is a high quality and low cost analog data acquisition module. We keep contacting with customer when we develop this module to ensure it suit for field application. S3200 has total 8 channels input, each input has lightning and surge protection. Output use RS232 or RS485 BUS, both of them has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 8 channel, improve sample rate for small count input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- Can detect RS232 or RS485 automatically ,no need jumper
- A lot of spare FLASH can be used to store user's parameters
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution----- 16-bit
Input channel number----- 8
Input range----- 0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection----- Lightning,static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS----- RS232/RS485(detect automatically)
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3201: 12 channels 0-5V,NTC 10K thermistor,dry contact inputs,16Bits,100K ADC

Descriptions:

S3201 is a high quality and low cost analog data acquisition module. S3201 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of, 0-5V, NTC 10K thermistor and dry contact
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP

Technical Data:

Resolution----- 16-bit
Input channel number----- 12
Input range----- 0~5V,10K thermistor, dry contact
Input protection----- Lightning,static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS----- Isolated RS485
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

S3000 Series

S3202: 12 channels 0-10V inputs, 16Bits, 100K ADC

Descriptions:

S3202 is a high quality and low cost analog data acquisition module. S3202 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input is 0-10V, fixed
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP

Technical Data:

Resolution-----	16-bit
Input channel number-----	12
Input range-----	0~10V
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS-----	Isolated RS485
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3203: 12 channels 4-20mA inputs, 16Bits, 100K ADC

Descriptions:

S3203 is a high quality and low cost analog data acquisition module. S3203 has total 12 channels input, each input has lightning and surge protection. Output use RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input is 4-20mA, fixed
- Surge-protected Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 12 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules through ISP

Technical Data:

Resolution----- 16-bit
Input channel number----- 12
Input range----- 4~20mA
Input protection----- Lightning, static
Accuracy----- ±0.1%
Zero drift----- ±3uV/°C
Sample rate----- 95 sample/second(12 channels),710 sample/second(1 channel)
Output BUS----- Isolated RS485
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3301: 8 dry/wet contact inputs, 6 open-collector outputs

Descriptions:

S3301 has total 8 channels isolated wet contact or dry contact or open-collector input, and total 6 channels isolated open-collector output. Output BUS is RS485 with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as 32-bit counter input
- Static ,lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 8 channels, improve frequency for small count input
- Isolated open-collector output can drive power relay directly
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Input channel number----- 8
Input range----- +4V~+36V
Input protection----- Static, lightning
Input signal----- wet contact, dry contact, open-collector
Counter frequency----- 100Hz@8channels;1000Hz@1channel
Counter length----- 32-bit
Output channel number----- 6
Output signal----- open-collector
Output current----- maximum 40mA
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3302 : 16 isolated dry/wet contact inputs

Descriptions:

S3302 has total 16 channels isolated wet contact or dry contact or open-collector input, Each input channel also can work as 32-bit counter input, the maximum frequency is 100Hz for total 16 channels and 1000Hz for only one channel. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as counter input, total 32 bits
- 32-bit counter be stored into FLASH when power off
- Can measure frequency from 0 to 200Hz, the resolution is 0.1Hz
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Input channel number----- 16
Input range----- +4V~+36V
Input signal----- wet contact, dry contact, open-collector
Counter frequency----- 100Hz@16channels;1000Hz@1channel
Counter length----- 32-bit
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3303 :16 isolated open-collector outputs

Descriptions:

S3303 has total 16 channels isolated open-collector output. Output BUS is RS485 with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated open-collector output can drive power relay directly
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Output channel number----- 16
Output signal----- open-collector
Output current----- maximum 40mA
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3303E :16 isolated open-collector outputs

Descriptions:

S3303E same with S3303 except more current output, the maximum current can up to 100mA per channel. S3303E has total 16 channels isolated open-collector output. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated open-collector output can drive power relay directly
- Output current can up to 100mA and no heat problem
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules, you can update your modules via ISP through RS485 BUS.

Technical Data:

Output channel number-----	16
Output signal-----	open-collector
Output current-----	maximum 100mA
Output BUS-----	RS485 with Standard Modbus protocol
Output Protection-----	Lightning,static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3306:16 isolated 0 to 36VDC digital inputs

Descriptions:

S3306 has total 16 channels isolated 0 through 36 volts DC input, Each input channel also can work as 32-bit counter input, the maximum frequency is 100Hz for total 16 channels and 1000Hz for only one channel. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as counter input, total 32 bits
- 32-bit counter be stored into FLASH when power off
- Can measure frequency from 0 to 200Hz, the resolution is 0.1Hz
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Input channel number----- 16
Input range----- +0V~+36V
Input signal----- Voltage Input
Counter frequency----- 100Hz@16channels;1000Hz@1channel
Counter length----- 32-bit
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3308: 5 Channels Power Relay Output,normal open

Descriptions:

S3308 has total 3 channels relay form C type output. The contact can handle the max 3A@220VAC. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- The max current can up to 3A@220VAC, 3channels in very low price
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS

Technical Data:

Output channel number----- 3
Output signal----- FORM-C type output
Output current----- maximum 3A
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning, static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S3000 Series

S3400: 4 channels analog output ,12-bit DAC

Descriptions:

S3400 has total 4 channels current and voltage output. The current and voltage can output at the same time. S3400 can output gradually through slew rate control and has default output when power up, all parameters store in nonvolatile RAM. Output BUS is RS485 with has surge protection. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Multiple output range setting, ±10V, ±5V, 0-10V, 0-5V, 0-20mA, 4-20mA
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Resolution-----	12-bit
Output channel number-----	4
Output signal-----	Current/Voltage
Output Range-----	±10V, ±5V, 0-10V, 0-5V, 0-20mA, 4-20mA
Accuracy:	
Current Output-----	±0.1% of FSR
Voltage Output-----	±0.2% of FSR
Zero Drift:	
Current Output-----	±0.2uA/°C
Voltage Output-----	±30uV/°C
Output Slope Rate:	
Current Output-----	0.125 128 mA/sec
Voltage Output-----	0.0625 64 V/sec
Current Load Resistor-----	0 to 300
Output BUS-----	RS485 with Standard Modbus protocol
Power input-----	15~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3400S: 4 channels analog output ,voltage read back,12-bit DAC

Descriptions:

S3400S has total 4 channels current and voltage output. The current and voltage can output at the same time. S3400S can output gradually through slew rate control and has default output when power up, all parameters store in nonvolatile RAM. Output BUS is RS485 with has surge protection. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Multiple output range setting,0-10V,0-5V,0-20mA,4-20mA
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules , you can update your modules via ISP through RS485 BUS.

Technical Data:

Resolution-----	12-bit
Output channel number-----	4
Output signal-----	Current/Voltage
Output Range-----	0-10V,0-5V,0-20mA,4-20mA
Accuracy:	
Current Output-----	±0.1% of FSR
Voltage Output-----	±0.2% of FSR
Zero Drift:	
Current Output-----	±0.2uA/°C
Voltage Output-----	±30uV/°C
Output Slope Rate:	
Current Output-----	0.125 128 mA/sec
Voltage Output-----	0.0625 64 V/sec
Current Load Resistor-----	0 to 300
Output BUS-----	RS485 with Standard Modbus protocol
Power input-----	15~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3401: 1 channel analog output ,12-bit DAC

Descriptions:

S3401 has total 1 channel current and voltage output. The current and voltage can output at the same time. Can read back the voltage output to ensure the output take action. S3401 can output gradually through slew rate control and has default output when power up, all parameters store in nonvolatile RAM. Output BUS is RS485 with surge protection. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Multiple output range setting, 0-10V,0-5V,0-20mA,4-20mA
- The analog output can be read back
- Jumper to select external power for current output for big load
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement and we will update our firmware even after you received the modules, you can update your modules via ISP through RS485 BUS.

Technical Data:

Resolution-----	12-bit
Output channel number-----	1
Output signal-----	Current/Voltage
Output Range-----	0-10V,0-5V,0-20mA,4-20mA
Accuracy:	
Current Output-----	±0.1% of FSR
Voltage Output-----	±0.2% of FSR
Voltage Read Back Accuracy-----	±0.05% of FSR
Zero Drift:	
Current Output-----	±0.2uA/°C
Voltage Output-----	±30uV/°C
Output Slope Rate:	
Current Output-----	0.125 128 mA/sec
Voltage Output-----	0.0625 64 V/sec
Current Load Resistor-----	0 to 300
Current Load Resistor at External Power-----	0 to 600
External Power Range-----	6-24VDC
Output BUS-----	RS485 with Standard Modbus protocol
Power input-----	15~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

RS485 Modules

— S3000 Series

S3402: 2 channels analog output ,12-bit DAC

Descriptions:

S3402 has total 2 channels current and voltage output. The current and voltage can output at the same time. Can read back the voltage output to ensure the output take action. S3402 can output gradually through slew rate control and has default output when power up, all parameters store in nonvolatile RAM. Output BUS is RS485 with surge protection. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Multiple output range setting, 0-10V,0-5V,0-20mA,4-20mA
- The analog output can be read back
- Jumper to select external power for current output for big load
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement and we will update our firmware even after you received the modules, you can update your modules via ISP through RS485 BUS.

Technical Data:

Resolution-----12-bit
Output channel number-----2
Output signal-----Current/Voltage
Output Range-----0-10V,0-5V,0-20mA,4-20mA
Accuracy:
Current Output-----±0.1% of FSR
Voltage Output-----±0.2% of FSR
Voltage Read Back Accuracy-----±0.05% of FSR
Zero Drift:
Current Output----- ±0.2uA/°C
Voltage Output----- ±30uV/°C
Output Slope Rate:
Current Output----- 0.125 128 mA/sec
Voltage Output----- 0.0625 64 V/sec
Current Load Resistor----- 0 to 300
Current Load Resistor at External Power----- 0 to 600
External Power Range----- 6-24VDC
Output BUS----- RS485 with Standard Modbus protocol
Power input----- 15~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

RS485 Modules

— S5000 Series

S5100: 8 channels 0- 5V,0 -10V,4 - 20mA analog inputs,10 relay outputs,12bits ADC

Descriptions:

S5100 is a high quality and low cost analog data acquisition module with 10 relay normal open outputs. S5100 has total 8 channels input, each input has lightning and surge protection, has total 10 relay outputs. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- 0-300Hz pulse input acceptable
- 10 channel normal open relay outputs, each output channel can be set AUTO/OFF/HAND by a 3-states switch
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution----- 12-bit
Input channel number----- 8
Input range----- 0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection----- Lightning,static
Accuracy----- $\pm 0.1\%$
Zero drift----- $\pm 3\mu\text{V}/^\circ\text{C}$
Sample rate----- 95 sample/second(8 channels),710 sample/second(1 channel)
Output channel number----- 10
Outputs----- 10 dry-contact outputs*0.5amps@120VAC
Output BUS----- RS485(opto-couplers isolated)
Output Protection----- Lightning,static
Power input----- 12~24V(AC/DC)
Power consumption----- $< 0.6\text{W}$
Ambient temperature:
Operation----- $-20\sim 85^\circ\text{C}$ ($-13\sim 185^\circ\text{F}$)
Storage----- $-40\sim 100^\circ\text{C}$ ($-40\sim 212^\circ\text{F}$)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- White/Black
Size----- 115*90*43 mm

RS485 Modules

— S5000 Series

S5116: 16 channels 0-5V, 0-10V, 4-20mA analog inputs, 4 relay outputs, 12bits ADC

Descriptions:

S5116 is a high quality and low cost analog data acquisition module with 16 analog inputs and 4 relay normal open outputs. Each input has lightning and surge protection, can be any combination of 0-5V,0-10V,dry contact, NTC 10K thermistor. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- 4 channel normal open relay outputs, each output channel can be set AUTO/OFF/HAND by a 3-states switch
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	12-bit
Input channel number-----	16
Input range-----	0~5V, 0~10V, 4~20mA, 10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	50 sample/second(16 channels)850 sample/second(1 channel)
Output channel number-----	4
Outputs-----	4 dry-contact outputs*0.5amps@120VAC
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

RS485 Modules

— S5000 Series

S5132A: 12 bits 100K sample speed ADC, 32 channel 0-5V, 10K thermistor, dry contact inputs, Rs485, Modbus

Descriptions:

S5132A is a high quality and low cost analog data acquisition module with 32 analog inputs. Each input has lightning and surge protection, Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-5V,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 32 channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network
- Related products: S5132B: 32 channels 0-10v input; S5132C: 32 channels 4-20mA input

Technical Data:

Resolution-----	12-bit
Input channel number-----	32
Input range-----	0~5V, 10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	20 sample/second(32 channels), 900 sample/second(1 channel)
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

RS485 Modules

— S5000 Series

S5132B: 12 bits 100K sample speed ADC, 32 channel 0-10V inputs, RS485, Modbus

Descriptions:

S5132B is a high quality and low cost analog data acquisition module with 32 analog 0-10V inputs. each input has lightning and surge protection, Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be 0-10V
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 32 channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network
- Related products: S5132A: 32 channels 0-5V input; S5132C: 32 channels 4-20mA input

Technical Data:

Resolution-----	12-bit
Input channel number-----	32
Input range-----	0~10V
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	20 sample/second(32 channels), 900 sample/second(1 channel)
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

RS485 Modules

— S5000 Series

S5132C: 12 bits 100K sample speed ADC, 32 channel 0-40mA inputs, RS485, Modbus

Descriptions:

S5132C is a high quality and low cost analog data acquisition module with 32 analog 4-20mA inputs. Each input has lightning and surge protection, Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be 4-20 mA
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 32 channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	12-bit
Input channel number-----	32
Input range-----	4-20mA
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	20 sample/second(32 channels),900 sample/second(1 channel)
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

RS485 Modules

— S5000 Series

S5200 : 8 channels 0-5V, 0-10V, 4-20mA analog inputs, 10 relay outputs, 16 bits ADC

Descriptions:

S5200 is a high quality and low cost analog data acquisition module with 10 relay normal open outputs. S5200 has total 8 channels input, each input has lightning and surge protection, has total 10 relay outputs. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V, 0-5V, 4-20mA, NTC 10K thermistor and dry contact
- 0-300Hz pulse input acceptable
- 10 channel normal open relay outputs, each output channel can be set AUTO/OFF/HAND by a 3-states switch
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	16-bit
Input channel number-----	8
Input range-----	0~5V, 0~10V, 4~20mA, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels), 710 sample/second(1 channel)
Output channel number-----	10
Outputs-----	10 dry-contact outputs*0.5amps@120VAC
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

RS485 Modules

— S5000 Series

S5306: 18 isolated digital input with LED indication, common cathode, 32bit counter, RS485, MODBUS/RTU

Descriptions:

S5306 has total 18 channels isolated 0 through 36 volts DC input, each input channel also can work as 32-bit counter input, the maximum frequency is 200Hz for total 16 channels and 1000Hz for only one channel, each channel has a LED to indicate the current input status. Output BUS is RS485 with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as counter input, total 32 bits, 1000Hz
- 32-bit counter be stored into FLASH when power off
- Can measure frequency from 0 to 200Hz, the resolution is 0.1Hz
- Can accept reed and hall sensor output from water meter or other meters
- Each input has a LED to indicate the current status
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 18 channels, improve frequency for small count input
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- You can tell us your requirement. we will update our firmware after you received the modules , you can update your modules via ISP through RS485 BUS.

Technical Data:

Input channel number-----	18
Input range-----	+0V~+36V
Input signal-----	Voltage Input
Counter frequency-----	100Hz@18channels;1000Hz@1channel
Counter length-----	32-bit
Output BUS-----	RS485 with Standard Modbus protocol
Output Protection-----	Lightning,static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*41 mm

RS485 Modules

— S5000 Series

S5316: 16 channels relay normal open output, relay is 1A@30VDC, 0.5V@125VAC

Descriptions:

S5316 has 16 relay normal open outputs. Each output has lightning and surge protection. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Outputs-----	16 dry-contact outputs*0.5amps@120VAC
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Wireless Zigbee Modules

— S7000 Series

S7000 Series Wireless Zigbee Module

- S7001:** 200 meters Zigbee wireless module
- S7002:** 800 meters Zigbee wireless module
- S7003:** 1,200 meters Zigbee wireless module



Highlights:

- S7000 series embedded wireless communication modules, integrated with RF transceiver and microprocessors based on standard ZIGBEE protocol, long distance communication, strong anti EMI capability, reliable and flexible is main characteristics of this module. Can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, Can form a star, peer to peer and mesh network structure.
- S7000 series wireless communication module data interface including: TTL level RXD/TXD, RS232 level RXD/TXD .Can transfer data by broadcast way, according to the target address, not only point to point transfer data also can multipoint to multipoint via repeater technical the Zigbee protocol support. The user only need care about serial port(TTL or Rs232) do their developing job to short time release their product on market.
- S7000 series wireless communication module is divided into central coordinating, routers and terminal .central coordinating in charge of setup wireless network and network maintenance, management. The router in charge of receive data and re-transfer it, terminal only receive and transfer data related to his own address. Coordinating center, router and terminal use the same hardware, in which mode you want the module work you should use jumper or I/O pins from another microprocessor to configure.

Technical Data:

The transmission distance-----	100 meters ~ 2,000 meters
Network topology-----	Star, tree and chain type, mesh network
Addressing mode-----	IEEE802.15.4 / ZIGBEE standard address
Network ID-----	255
Maximum packets-----	256 bytes
Data interface-----	TTL level and standard RS232 serial transceiver
Serial signal-----	TxD, RxD, GND
Serial rate-----	1200 ~ 38400 bps
Serial calibration-----	None, Even, Odd
Data bits-----	7, 8
Parity-----	1
Modulation mode-----	The DSSS direct sequence spread spectrum
Frequency range-----	2.405GHz~ 2.480GHz
A radio channel-----	16
Receiving sensitivity-----	-94 dbm
Transmission power-----	-27dBm~25dBm
Antenna-----	External SMA antenna or PCB antenna
To prevent conflict-----	GTS, CSMA - CA and CSMA - CA
Input voltage-----	DC 5V
I/O-----	DC 3.3V
Maximum current-----	70 mA
Largest recipient current-----	55 mA
Standby current-----	10 mA
Power saving mode-----	110 uA
Sleep patterns-----	30 uA
Working temperature-----	-40°C ~ 85°C
Storage temperature-----	-55°C ~ 125°C

Wireless Zigbee Modules

— S7000 Series

S7100: 8 channels 0-5V, 0-10V, 4-20mA analog inputs, 12bits ADC, Modbus RTU, Zigbee

Descriptions:

S7100 is a high quality and low cost analog data acquisition module. S7100 has total 8 channels input, each input has lightning and surge protection, the inputs can be any combination of 0-5V,0-10V,4-20mA, dry contact and NTC 10K thermistor. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Both of Rs232 and Zigbee using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Reliable Zigbee can up to 2000 meters communication
- The channel number is configurable, can be set up from 1 channel through 8 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one network
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. we will update our firmware even after you received the modules , you can update your modules through ISP

Technical Data:

Resolution-----	12-bit
Input channel number-----	8
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS-----	RS232/Zigbee(detect automatically)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7106: 4 channels 0-5V, 0-10V, 4-20mA analog inputs, 12bits ADC, 2 relay outputs, Modbus RTU, Zigbee

Descriptions:

S7106 is a high quality and low cost analog data acquisition module. S7106 has total 4 channels input, 2 channels relay output and 1 channel 0-5V analog output. Each input has lightning and surge protection, the inputs can be any combination of 0-5V,0-10V,4-20mA, dry contact and NTC 10K thermistor. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Both Rs232 and Zigbee use the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed ADC
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Reliable Zigbee can up to 2000 meters communication
- The channel number is configurable, can be set up from 1 channel through 4 channel, improve sample rate for small count analog input
- Standard ModBus/RTU protocol allows for up to 254 unique devices on one network
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. we will update our firmware even after you received the modules, you can update your modules through Zigbee or Rs232.

Technical Data:

Resolution-----	12-bit
Input channel number-----	4
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels), 710 sample/second(1 channel)
Relay output number-----	2
Relay outputs-----	2 dry-contact outputs*5amps@120VAC
Analog output number-----	1
Analog outputs-----	0-5V(±3%)
Output BUS-----	RS232/Zigbee(detect automatically)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7200: 8 channels 0- 5V, 0 -10V, 4 - 20mA analog inputs, 16bits ADC, Modbus RTU, Zigbee

Descriptions:

S7200 is a high quality and low cost analog data acquisition module. S7200 has total 8 channels input, each input has lightning and surge protection, the inputs can be any combination of 0-5V,0-10V,4-20mA, dry contact, open-collector and NTC 10K thermistor. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Both Rs232 and Zigbee use the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Reliable Zigbee can up to 2000 meters communication
- The channel number is configurable, can be set up from 1 channel through 8 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one network
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. we will update our firmware even after you received the modules , you can update your modules through ISP.

Technical Data:

Resolution-----	16-bit
Input channel number-----	8
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	-±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS-----	RS232/Zigbee(detect automatically)
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7206: 4 channels 0-5V, 0-10V, 4-20mA analog inputs, 16bits ADC, 2 relay outputs, Modbus RTU, Zigbee

Descriptions:

S7206 is a high quality and low cost analog data acquisition module. S7206 has total 4 channels input, 2 channels relay output and 1 channel 0-5V analog output. Each input has lightning and surge protection, the inputs can be any combination of 0-5V,0-10V,4-20mA, dry contact and NTC 10K thermistor. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Both Rs232 and Zigbee use the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed ADC
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Reliable Zigbee can up to 2000 meters communication
- The channel number is configurable, can be set up from 1 channel through 4 channel, improve sample rate for small count analog input
- Standard ModBus/RTU protocol allows for up to 254 unique devices on one network
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. we will update our firmware even after you received the modules, you can update your modules through Zigbee or Rs232.

Technical Data:

Resolution-----	16-bit
Input channel number-----	4
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Relay output number-----	2
Relay outputs-----	2 dry-contact outputs*5amps@120VAC
Analog output number-----	1
Analog outputs-----	0-5V(±3%)
Output BUS-----	RS232/Zigbee(detect automatically)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7301: 8 channels isolated dry contact, 0-36VDC common anode digital inputs, 3 channels isolated open-collector output Modbus RTU, Zigbee wireless

Descriptions:

S7301 Zigbee input/output module has total 8 channels isolated wet contact or dry contact or open-collector input, and total 3 channels isolated open-collector output. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Can build huge Zigbee wireless network through setting modules address, signal channel and net ID.

The S7301 can work in terminal mode or router mode through configure parameters. Both of RS232 and Zigbee use the industry standard Modbus/RTU protocol.



Highlights:

- Isolated digital inputs can be configured as 32-bit counter input
- Input can be dry contact, wet contact, open-collector output
- Static, lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 8 channels, improve frequency for small count input
- Isolated open-collector output can drive power relay directly
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Zigbee wireless range can up to 2000 meters
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. We will update our firmware even after you received the modules, you can update your modules through RS232/ZIGBEE.

Technical Data:

Input channel number	8
Input range	+4V~+36V
Input protection	Static, lightning
Input signal	wet contact, dry contact, open-collector
Counter frequency	100Hz@8channels;1000Hz@1channel
Counter length	32-bit
Output channel number	3
Output signal	open-collector
Output current	maximum 40mA
Output BUS	RS232/ZIGBEE with Standard Modbus protocol
Output Protection	Lightning,static
Power input	9~24V(AC/DC)
Power consumption	<0.6W
Ambient temperature:	
Operation	-20~85°C(-13~185°F)
Storage	-40~100°C(-40~212°F)
Ambient humidity	10%~90%RH
Material,enclosure	Flame proof plastic
Enclosure rating	IP31
Colour	Ice Blue
Size	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7302: 12 channels isolated dry contact, 0-36VDC common anode digital inputs, Modbus RTU, Zigbee wireless

Descriptions:

S7302 zigbee digital input module has total 12 channels isolated wet contact or dry contact or open-collector input. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Can build huge Zigbee wireless network through setting modules address, signal channel and net ID. The S7302 can work in terminal mode or router mode through configure parameters. Both of Rs232 and Zigbee use the industry standard Modbus/RTU protocol.



Highlights:

- Isolated digital inputs can be configured as 32-bit counter input
- Input can be dry contact, wet contact, open-collector output
- Static, lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 12 channels, improve frequency for small count input
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Zigbee wireless range can up to 2000 meters
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. We will update our firmware even after you received the modules, you can update your modules through RS232/ZIGBEE.

Technical Data:

Input channel number----- 12
Input range----- +4V~+36V
Input protection----- Static, lightning
Input signal----- wet contact, dry contact, open-collector
Counter frequency----- 100Hz@12channels;1000Hz@1channel
Counter length----- 32-bit
Output BUS----- RS232/ZIGBEE with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7303: 12 channels isolated open-collector digital outputs, Modbus RTU, Zigbee wireless

Descriptions:

S7303 Zigbee open-collector output module has total 12 channels isolated open-collector output. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Can build huge Zigbee wireless network through setting modules address, signal channel and net ID. The S7303 can work in terminal mode or router mode through configure parameters. Both of Rs232 and Zigbee using the industry standard Modbus/RTU protocol.



Highlights:

- Isolated open-collector output can drive power relay directly
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Zigbee wireless range can up to 2000 meters
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. We will update our firmware even after you received the modules, you can update your modules through RS232/ZIGBEE.

Technical Data:

Output channel number-----	12
Output signal-----	open-collector
Output current-----	maximum 40mA
Output BUS-----	RS232/ZIGBEE with Standard Modbus protocol
Output Protection-----	Lightning, static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

— S7000 Series

S7305: 3 channels power relay output(250VAC/12A) , Modbus RTU, Zigbee wireless

Descriptions:

S7305 Zigbee relay output module has total 3 channels relay normal open output. The contact can handle the max 12A@220VAC. Output use RS232 or ZIGBEE wireless. Zigbee can realize the point-to-point, point-to-multipoint, multipoint-to-multipoint data transmission, can form a star, peer to peer and mesh network structure. Can build huge Zigbee wireless network through setting modules address, signal channel and net ID. The S7305 can work in terminal mode or router mode through configure parameters. Both of Rs232 and Zigbee using the industry standard Modbus/RTU protocol.



Highlights:

- The max current can up to 12A@220VAC, 3 channels in very low price
- A lot of spare FLASH can be used to store user's parameters
- RS232 or ZIGBEE for optional
- Zigbee wireless range can up to 2000 meters
- Can detect RS232 or ZIGBEE automatically, no need jumper
- You can tell us your requirement. We will update our firmware even after you received the modules, you can update your modules through RS232/ZIGBEE.

Technical Data:

Output channel number-----	3
Output signal-----	Relay Normal Open Contact
Output current-----	maxium 12A
Output BUS-----	RS232/ZIGBEE with Standard Modbus protocol
Output Protection-----	Lightning,static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Wireless Zigbee Modules

S6000 Series

S6889: Ethernet to zigbee converter, Modbus/tcpip to Modbus Protocol converter, Zigbee transmit

Descriptions:

S6889 is a multiple protocol converter, can do Ethernet to Zigbee, Ethernet to RS485, Ethernet to Rs232, RS232 to Zigbee, RS232 to RS485. For Ethernet always support Modbus/TCPIP protocol, and RS232, RS485, Zigbee always support standard modbus protocol. Power supply has reverse protection, lightning, static, over voltage, over current protection. All communication port also have lightning, static protection.



Highlights:

- Industry Ethernet with MODBUS/TCPIP protocol
- RS232, RS485, ZIGBEE with MODBUS protocol
- Rs485 port can attach 254 slave RS485 device
- The maximum Zigbee communication distance up to 3000 meters
- The Zigbee radio can configure as master, terminal and repeater
- Can build Zigbee network with thousands Zigbee products by setup Zigbee wireless signal channel and device address
- A lot of spare FLASH can be used to store user's parameters
- A lot of RAM/ROM can use to add more features
- Can update firmware through RS23 port by user
- LEDs indicate each port and system work status
- Integrate clock can do some schedule according to user requirement
- DIN rail support available

Technical Data:

Output BUS-----	Ethernet/RS232/RS485/ZIGBEE
RS232/RS485/ZIBEE protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	75 mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Wireless Zigbee Modules

— S7000 Series

S7889: RS232/RS485 to Zigbee Converter

RS232 Data Interface:

Data Interface Definition:

DB-9 Interface	RS232
2	TXD
3	RXD
5	GND

Default Serial Port Parameters:

Serial Port Parameters	Default Settings
Serial Rate	9600
Serial Check	None
Data Bits	8
Stop Bits	1



RS485 Data Interface:

Data Interface Definition:

3 Pin Terminal Interface	RS485/RS232
DATA+	A
DATA-	B
RGND	earth

Default Serial Port Parameters:

Serial Port Parameters	Default Settings
Serial Rate	9600
Serial Check	None
Data Bits	8
Stop Bits	1

Technical Data:

Transmission Distance ----- 100 meters ~ 2,000 meters
 Network Topology ----- Star, tree and chain type, mesh network
 Network ID ----- 65535
 Network Node ----- 65535
 Maximum Packets ----- 256 bytes
 Data Interface ----- TTL level, RS232 and RS485
 Serial Signal ----- TXD, RXD, GND
 Serial Rate ----- 1200 ~ 115200 bps
 Modulation Mode ----- DSSS direct sequence spread spectrum
 Frequency Range ----- 2.405GHz ~ 2.480GHz
 A Radio Channel ----- 16
 Receiving Sensitivity ----- -94 dbm
 Transmission Power ----- -27dBm~25dBm
 Antenna ----- External SMA Antenna
 Conflict Prevention ----- GTS, CSMA - CA and CSMA - CA
 Input Voltage ----- 12~ 24VAC/DC, Standard is 24VDC

Ethernet Modules

— S3000 Series

S3100I: 8 channels 0- 5V,0 -10V,4 - 20mA analog inputs,12bits ADC ,connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S3100I is a high quality and low cost analog data acquisition module. We keep contacting with customer when we develop this module to ensure it suit for field application. S3100I has total 8 channels input, each input has lightning and surge protection. Output use RS232 or RS485 BUS, both of them has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V, 4-20mA,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 8 channel, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- Can detect RS232 or RS485 automatically, no need jumper
- You can tell us your requirement. we will update our firmware even after you received the modules , you can update your modules through ISP.

Technical Data:

Resolution-----	12-bit
Input channel number-----	8
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS-----	RS232/RS485(detect automatically)
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Ethernet Modules

— S3000 Series

S3200I : 8 channels 0- 5V, 0 -10V, 4 - 20mA analog inputs, 16bits ADC ,connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S3200I is a high quality and low cost analog data acquisition module. We keep contacting with customer when we develop this module to ensure it suit for field application. S3200I has total 8 channels input, each input has lightning and surge protection. Output use RS232 or RS485 BUS, both of them has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the Rs485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through 8 channel, improve sample rate for small count input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- Can detect RS232 or RS485 automatically , no need jumper
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	16-bit
Input channel number-----	8
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Output BUS-----	RS232/RS485(detect automatically)
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Ethernet Modules

— S3000 Series

S3302I: 16 dry/wet contact inputs ,connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S3302I has total 16 channels isolated wet contact or dry contact or open-collector input, Each input channel also can work as 32-bit counter input, the maximum frequency is 100Hz for total 16 channels and 1000Hz for only one channel. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as counter input, total 32 bits
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules, you can update your modules via ISP through Rs485

Technical Data:

Input channel number-----	16
Input range-----	+4V~+36V
Input signal-----	wet contact, dry contact, open-collector
Counter frequency-----	100Hz@16channels;1000Hz@1channel
Counter length-----	32-bit
Output BUS-----	RS485 with Standard Modbus protocol
Output Protection-----	Lightning,static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Ethernet Modules

— S3000 Series

S3306I: 16 channel isolated 0-36VDC digital inputs, connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S3306I has total 16 channels isolated 0 through 36 volts DC input, Each input channel also can work as 32-bit counter input, the maximum frequency is 100Hz for total 16 channels and 1000Hz for only one channel. Output BUS is RS485 with has surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Isolated digital inputs can be configured as counter input, total 32 bits
- 32-bit counter be stored into FLASH when power off
- Can measure frequency from 0 to 200Hz, the resolution is 0.1Hz
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Input channel number----- 16
Input range----- +0V~+36V
Input signal----- Voltage Input
Counter frequency----- 100Hz@16channels;1000Hz@1channel
Counter length----- 32-bit
Output BUS----- RS485 with Standard Modbus protocol
Output Protection----- Lightning,static
Power input----- 9~24V(AC/DC)
Power consumption----- <0.6W
Ambient temperature:
Operation----- -20~85°C (-13~185°F)
Storage----- -40~100°C (-40~212°F)
Ambient humidity----- 10%~90%RH
Material,enclosure----- Flame proof plastic
Enclosure rating----- IP31
Colour----- Ice Blue
Size----- 100*69*25 mm

Ethernet Modules

— S3000 Series

S3400I: 4 channel DAC outputs, connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S3400i has total 4 channels current and voltage output. The current and voltage can output at the same time. S3400 can output gradually through slew rate control and has default output when power up, all parameters store in nonvolatile RAM. Output BUS is RS485 with has surge protection. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Multiple output range setting, $\pm 10V$, $\pm 5V$, $0-10V$, $0-5V$, $0-20mA$, $4-20mA$
- Surge-protected and isolated Rs485 ensure reliability
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- You can tell us your requirement. we will update our firmware even after you received the modules ,you can update your modules via ISP through RS485 BUS.

Technical Data:

Resolution-----	12-bit
Output channel number-----	4
Output signal-----	Current/Voltage
Output Range-----	$\pm 10V$, $\pm 5V$, $0-10V$, $0-5V$, $0-20mA$, $4-20mA$
Accuracy:	
Current Output-----	$\pm 0.1\%$ of FSR
Voltage Output-----	$\pm 0.2\%$ of FSR
Zero Drift:	
Current Output-----	$\pm 0.2\mu A/^\circ C$
Voltage Output-----	$\pm 30\mu V/^\circ C$
Output Slope Rate:	
Current Output-----	0.125 128 mA/sec
Voltage Output-----	0.0625 64 V/sec
Current Load Resistor-----	0 to 300
Output BUS-----	RS485 with Standard Modbus protocol
Power input-----	15~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Ethernet Modules

— S5000 Series

S5100I: 8 channel inputs, connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S5100I is a high quality and low cost analog data acquisition module with 10 relay normal open outputs. S5100 has total 8 channels input, each input has lightning and surge protection, has total 10 relay outputs. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-5V,4-20mA,NTC 10K thermistor and dry contact
- 0-300Hz pulse input acceptable
- 10 channel normal open relay outputs, each output channel can be set AUTO/OFF/HAND by a 3-states switch
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	12-bit
Input channel number-----	8
Input range-----	0~5V,0~10V,4~20mA,10K thermistor, dry contact
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels),710 sample/second(1 channel)
Output channel number-----	10
Outputs-----	10 dry-contact outputs*0.5amps@120VAC
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S5000 Series

S5132I: 32 channels inputs, connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S5132I is a high quality and low cost analog data acquisition module with 32 analog inputs. Each input has lightning and surge protection, Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-5V,NTC 10K thermistor and dry contact
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from 1 channel through 32 channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Islated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	12-bit
Input channel number-----	32
Input range-----	0~5V, 10K thermistor, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	20 sample/second(32 channels), 900 sample/second(1 channel)
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	0~70°C (32~158°F)
Storage-----	-20~85°C (-4~185°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S5000 Series

S5200I: 8 channels inputs, connet to Ethernet through TCPIP to RS485 converter

Descriptions:

S5200I is a high quality and low cost analog data acquisition module with 10 relay normal open outputs. S5200 has total 8 channels input, each input has lightning and surge protection, has total 10 relay outputs. Output is RS485 BUS with surge protection, to reduce interference by serial port communication, the output isolated by high speed opto-couplers. The modules are slave devices that can be easily controlled via the RS485 serial interface using the industry standard Modbus protocol.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V, 0-5V, 4-20mA, NTC 10K thermistor and dry contact
- 0-300Hz pulse input acceptable
- 10 channel normal open relay outputs, each output channel can be set AUTO/OFF/HAND by a 3-states switch
- Surge-protected and isolated Rs485 ensure reliability
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- Standard ModBus protocol allows for up to 254 unique devices on one RS485 network
- A lot of spare FLASH can be used to store user's parameters
- Isolated RS485, non-isolated RS485, RS232 for optional
- Can update your firmware via ISP through RS485 network

Technical Data:

Resolution-----	16-bit
Input channel number-----	8
Input range-----	0~5V, 0~10V, 4~20mA, dry contact
Input protection-----	Lightning, static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	95 sample/second(8 channels), 710 sample/second(1 channel)
Output channel number-----	10
Outputs-----	10 dry-contact outputs*0.5amps@120VAC
Output BUS-----	RS485(opto-couplers isolated)
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6116: Ethernet 16 channels 0-3V,0-10V,4-20mA,dry contact,10K NTC thermistor inputs , 12-bit ADCs, Modbus/TCPIP and Modbus protocol

Descriptions:

S6116 is a high quality and low cost Ethernet data acquisition module with 16 analog inputs. Each input has lightning and surge protection, can be any combination of 0-3.3V, 0-20mA, 0-10V, dry contact, NTC 10K thermistor. Fast speed MCU can handle high frequency pulse and store counter into EEPROM. Output is Ethernet with MODBUS/TCPIP protocol, also has a RS232/RS485 port with standard modbus protocol to configure the module.



Highlights:

- Surge-protected analog inputs with 12-bit resolution and 100k sample speed
- Input can be any combination of 0-10V, 0-3.33V, 4-20mA, NTC 10K thermistor and dry contact
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- A lot of spare FLASH can be used to store user's parameters
- Standard MODBUS/TCPIP protocol for Ethernet and standard MODBUS protocol for RS232

Technical Data:

Resolution-----	12-bit
Input channel number-----	16
Input range-----	0~3.3V, 0~10V, 4~20mA, 10K thermistor, dry contact
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	200sample/second(16 channels)1000 sample/second(1 channel)
Output BUS-----	Ethernet/RS232/RS485
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	39mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6216: Ethernet 16 channels 0-3V,0-10V,4-20mA,dry contact,10K NTC thermistor inputs , 16-bit ADCs, Modbus/TCPIP and Modbus protocol

Descriptions:

S6216 is a high quality and low cost Ethernet data acquisition module with 16 analog inputs. Each input has lightning and surge protection, can be any combination of 0-3.3V,0-20mA,0-10V,dry contact, NTC 10K thermistor. Fast speed MCU can handle high frequency pulse and store counter into EEPROM. Output is Ethernet with MOSBUS/TCPIP protocol, also has a RS232/RS485 port with standard modbus protocol to configure the module.



Highlights:

- Surge-protected analog inputs with 16-bit resolution and 100k sample speed
- Input can be any combination of 0-10V,0-3.33V,4-20mA,NTC 10K thermistor and dry contact
- The channel number is configurable, can be set up from one channel through eight channels, improve sample rate for small count analog input
- A lot of spare FLASH can be used to store user's parameters
- Standard MODBUS/TCPIP protocol for Ethernet and standard MODBUS protocol for RS232/RS485

Technical Data:

Resolution-----	16-bit
Input channel number-----	16
Input range-----	0~3.3V, 0~10V, 4~20mA, 10K thermistor, dry contact
Input protection-----	Lightning,static
Accuracy-----	±0.1%
Zero drift-----	±3uV/°C
Sample rate-----	200sample/second(16 channels)1000 sample/second(1 channel)
Output BUS-----	RJ45/RS232/RS485
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	39mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6301: Ethernet 8 channels isoalted digital input and 8 channels isolated digital output module,Modbus/TCPIP and Modbus protocol.

Descriptions:

S6301 Ethernet digital input/output module has total 8 channels isolated wet contact or dry contact or open-collector input and 8 channel isolated open-collector output, Each input channel also can work as 32-bit counter input, the maximum frequency is 1000Hz for total 16 channels and 5000Hz for only one channel, each output can drive relay directly. S6301 can connect to PC through RS232 port with modbus protocol, and connect to local Ethernet with modbus/tcpip protocol. All these communication port has static, over current, over voltage protection.



Highlights:

- Industry Ethernet with MODBUS/TCPIP
- RS232/RS485 with MODBUS protocol to configure the module
- Isolated digital inputs can be configured as counter input, total 32 bits,5000Hz
- Can measure frequency from 0 to 1000Hz,the resolution is 0.1Hz
- Accept reed and hall sensor output from water meter or other meters
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 8 channels, improve frequency for small count input
- Isolated open-collector output can drive power relay directly
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Input channel number-----	8
Input range-----	0V~+36V
Input signal-----	wet contact, dry contact, open-collector
Counter frequency-----	1000Hz@16channels;5000Hz@1channel
Counter length-----	32-bit
Output channel number-----	8
Output signal-----	open-collector
Output current-----	maximum 40mA
Output BUS-----	Ethernet/RS232/RS485
RS232/RS485 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	70mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6302: Ethernet 16 channels dry/wet isolation digital input, 0-36VDC common anode input, Modbus/TCPIP protocol and Modbus protocol.

Descriptions:

S6302 Ethernet digital input module has total 16 channels isolated wet contact or dry contact or open-collector input, Each input channel also can work as 32-bit counter input, the maximum frequency is 1000Hz for total 16 channels and 5000Hz for only one channel. S6302 can connect to PC through RS232 or RS485 port, default is RS485, serial port support modbus protocol, and connect to local Ethernet with modbus/tcpip protocol. All these communication port has static, over current, over voltage protect.



Highlights:

- Industry Ethernet with MODBUS/TCPIP
- RS232 / RS485 with MODBUS protocol to configure the module
- Isolated digital inputs can be configured as counter input, total 32 bits, 5000Hz
- Can measure frequency from 0 to 1000Hz, the resolution is 0.1Hz
- Accept reed and hall sensor output from water meter or other meters
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected RS232/RS485 ensure reliability
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Input channel number-----	16
Input range-----	0V~+36V
Input signal-----	wet contact, dry contact, open-collector
Counter frequency-----	1000Hz@16channels;5000Hz@1channel
Counter length-----	32-bit
Output BUS-----	Ethernet/RS232/RS485
RS232/RS485 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	70mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6303: Ethernet 16 channels isolation open-collector output, Modbus/TCPIP protocol and Modbus protocol.

Descriptions:

S6303 Ethernet digital output module has total 16 channels isolated open-collector output, S6303 can connect to PC through RS232 or RS485 port, default is RS485, serial port support modbus protocol, and connect to local Ethernet with modbus/tcpip protocol. All these communication port has static, over current, over voltage protect.

Highlights:

- Isolated open-collector output can drive power relay directly
- Industry Ethernet with MODBUS/TCPIP
- RS232 / RS485 with MODBUS protocol to configure the module
- Surge-protected RS232/RS485 ensure reliability
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Output channel number-----	16
Output signal-----	open-collector
Output current-----	maximum 40mA
Output BUS-----	Ethernet/RS232/RS485
RS232/RS485 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	70mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material, enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6305: Ethernet 5 channels power relay output module, Modbus/TCPIP protocol and Modbus protocol.

Descriptions:

S6305 Ethernet power relay output module has total 5 channels relay normal open output. The contact can handle the max 12A@220VAC. Output, S6305 can connect to PC through RS232 or RS485 port, default is RS485, serial port support modbus protocol, and connect to local Ethernet with modbus/tcpip protocol. All these communication port has static, over current, over voltage protect.

Highlights:

- The max current can up to 12A@220VAC, 5 channels in very low price
- Industry Ethernet with MODBUS/TCPIP
- RS232 / RS485 with MODBUS protocol to configure the module
- Surge-protected RS232/RS485 ensure reliability
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Output channel number	5
Output signal	Relay Normal Open Contact
Output current	maximum 12A
Output BUS	Ethernet/RS232/RS485
RS232/RS485 protocol	MODBUS/RTU
Ethernet protocol	MODBUS/TCPIP
Output Protection	Lightning, static
Power input	12~24V(AC/DC)
Power consumption	70mA@24VDC
Ambient temperature:	
Operation	-20~85°C (-13~185°F)
Storage	-40~100°C (-40~212°F)
Ambient humidity	10%~90%RH
Material, enclosure	Flame proof plastic
Enclosure rating	IP31
Colour	White/Black
Size	115*90*43 mm

Ethernet Modules

— S6000 Series

S6307: Ethernet 16 channels wet isolation digital input, 0-110VDC common anode input, Modbus/TCPIP protocol and Modbus protocol.

Descriptions:

S6307 Ethernet digital input module has total 16 channels isolated wet contact input, Each input channel also can work as 32-bit counter input, the maximum frequency is 1000Hz for total 16 channels and 5000Hz for only one channel. S6307 can connect to PC through RS232 or RS485 port, default is RS485, serial port support modbus protocol, and connect to local Ethernet with modbus/tcpip protocol. All these communication port has static, over current, over voltage protect.

Highlights:

- Industry Ethernet with MODBUS/TCPIP
- RS232 / RS485 with MODBUS protocol to configure the module
- Isolated digital input voltage can up to 110VDC
- Isolated digital inputs can be configured as counter input, total 32 bits, 5000Hz
- Can measure frequency from 0 to 1000Hz, the resolution is 0.1Hz
- Accept reed and hall sensor output from water meter or other meters
- Static and lightning protection for each input
- The input channel number is configurable, can be set up from 1 channel through 16 channels, improve frequency for small count input
- Surge-protected RS232/RS485 ensure reliability
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Input channel number-----	16
Input range-----	0V~+110V
Input signal-----	wet contact, open-collector
Counter frequency-----	1000Hz@16channels;5000Hz@1channel
Counter length-----	32-bit
Output BUS-----	Ethernet/RS232/RS485
RS232/RS485 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	70mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C(-13~185°F)
Storage-----	-40~100°C(-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6316: Ethernet 16 channels normal open relay output, Modbus/TCPIP protocol and Modbus protocol.

Descriptions:

S6316 has 16 relay normal open outputs. Each output has lightning and surge protection. Output is Ethernet with MODBUS/TCPIP protocol or RS232 with MODBUS protocol.



Highlights:

- Industry Ethernet with MODBUS/TCPIP
- RS232 with MODBUS protocol to configure the module
- A lot of spare FLASH can be used to store user's parameters
- DIN support available

Technical Data:

Outputs-----	16 dry-contact outputs*0.5amps@120VAC
Output BUS-----	Ethernet/RS232
RS232 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCPIP
Output Protection-----	Lightning, static
Power input-----	12~24V(AC/DC)
Power consumption-----	200mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S6000 Series

S6889: Ethernet to RS232/RS485 converter, Modbus TCP/IP to Modbus RTU converter.

Descriptions:

S6889 is a multiple protocol converter, can do Ethernet to RS485, Ethernet to RS232, RS232 to RS485. For Ethernet always support Modbus/TCP/IP protocol, and RS232, RS485 always support standard modbus protocol. Power supply has reverse protection, lightning, static, over voltage, over current protection. All communication port also have lightning, static protection.



Highlights:

- Industry Ethernet with MODBUS/TCP/IP protocol
- RS232, RS485 with MODBUS protocol
- RS485 port can attach 254 slave RS485 device
- A lot of spare FLASH can be used to store user's parameters
- A lot of RAM/ROM can use to add more features
- Can update firmware through RS232 port by user
- LEDs indicate each port and system work status
- Integrate clock can do some schedule according to user requirement
- DIN rail support available

Technical Data:

Output BUS-----	Ethernet/RS232/RS485/ZIGBEE
RS232/RS485 protocol-----	MODBUS/RTU
Ethernet protocol-----	MODBUS/TCP/IP
Output Protection-----	Lightning,static
Power input-----	12~24V(AC/DC)
Power consumption-----	75 mA@24VDC
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	White/Black
Size-----	115*90*43 mm

Ethernet Modules

— S8000 Series

8051NET: TCPIP to RS232 converter, support ICMP, IP, TCP, ARP protocol

Descriptions:

8051NET is an intelligent protocol conversion networking bridge, realizing dual data conversion from 232 Jack of RS232 / RS485 / TTL Voltage to RJ45. With this module, you may easily convert physical layer protocol between Internet and 232 Jack of RS232 / RS485 / TTL Voltage, finishing the communications between the two. Therefore, users do not need to change the software. For example, one side is Modbus protocol on RS232 serial port / Rs485 / TTL, and the other side is Modbus on the TCP / IP.



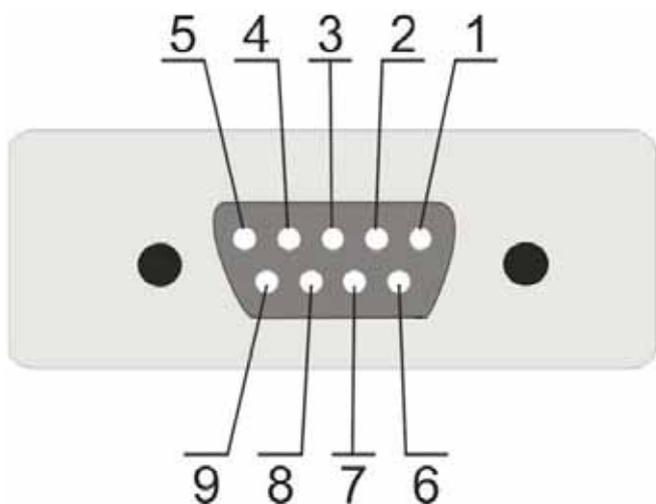
Main Parameters:

- Address: 01
- Baudrate: 9600 (03)
- Network Mode: TCP Server
- IP Address: 192.168.1.8
- Subnet Mask Code: 255.255.255.0
- Hub IP Address: 192.168.1.1

Default Parameters:

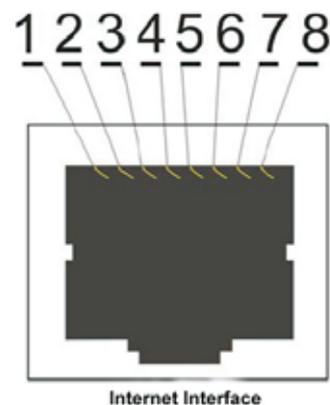
- Baudrate: 19200
- Data: 1-8-N-1
- IP: 192.168.0.18
- Subnet: 255.255.255.0
- Gateway: 192.168.0.1
- Port: 6001
- Mode: server

8051NET Wiring:



Pin2: RXD
Pin3: TXD
Pin5: GND

RJ45 Wiring:



Cautions:

BTthe positive and negative of power should not be reversed, otherwise, it will be burnt out.

Ethernet Modules

— S8000 Series

8052NET: TCPIP to RS485 converter, support ICMP, IP, TCP, ARP protocol

Descriptions:

8052NET is an intelligent protocol conversion networking bridge, realizing dual data conversion from 232 Jack of RS232 / RS485 / TTL Voltage to RJ45. With this module, you may easily convert physical layer protocol between Internet and 232 Jack of RS232 / RS485 / TTL Voltage, finishing the communications between the two. Therefore, users do not need to change the software. For example, one side is Modbus protocol on RS232 serial port / Rs485 / TTL, and the other side is Modbus on the TCP / IP.



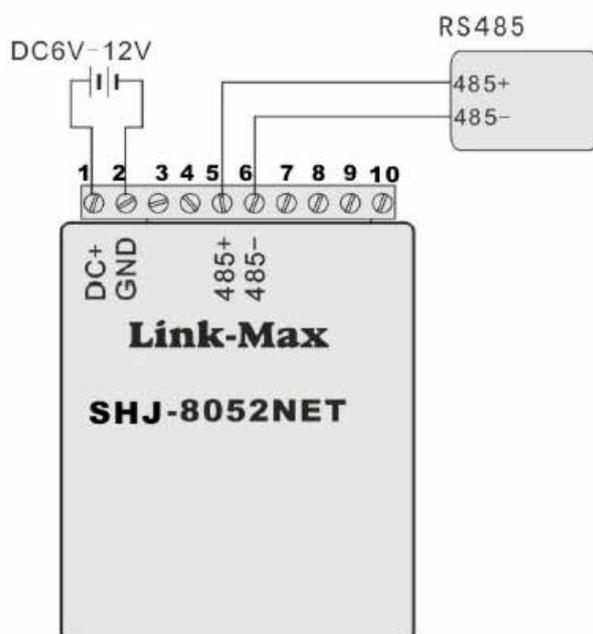
Main Parameters:

- Address: 01
- Baudrate: 9600 (03)
- Network Mode: TCP Server
- IP Address: 192.168.1.8
- Subnet Mask Code: 255.255.255.0
- Hub IP Address: 192.168.1.1

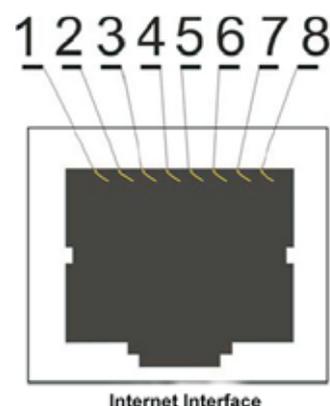
Default Parameters:

- Baudrate: 19200
- Data: 1-8-N-1
- IP: 192.168.0.18
- Subnet: 255.255.255.0
- Gateway: 192.168.0.1
- Port: 6001
- Mode: server

8052NET Wiring:



Rj45 Wiring:



Cautions:

BTThe positive and negative of power should not be reversed, otherwise, it will be burnt out.

Converters

COM910: RS232 to TTL level Converter

- All components built in DB9 shell
- Don't need to supply DC 5V power
- Femal DB9 in RS232 end
- Assign which type terminal you want in TTL end, it could be IDC,SIP
- Cable length: 2m



COM920: RS232 to RS485 level Converter

- Baudrate:115200-9600bps/0-5Km ,can up to 57600 at 1.2Km
- Self power ,data direction auto turnaround
- Operation mode:half duplex
- Static protection
- Cable length:2m



COM930: USB to RS485/232 Converter

- USB2.0, plug and play
- Baud rate 300 ~ 921600 bps,auto detect the baudrate
- TIA/EIA RS485-422 standard
- Max can attach 32 RS485 device
- Get power from USB,do not need extern power supply
- 15KV ESD protection
- Drivers for ME,2000,2003,2008,XP,Vista,win7,linux,MAC OS, Wince



Converters

COM940: TTL to RS485 converter, connect to S7100, S7106 to build a Zigbee to Rs485 network

Highlights:

The TTL to RS485 converter has two package, can solder on PCB board or connect to TTL interface of S7100 through terminal.

Do not need RS485 chip disable/enable signal.

TTL DEFINITION

Pin 1 : VCC(+5V)

Pin 2 : GND

Pin 3 : RXD

Pin 4 : TXD

RS485 PIN DEFINITION

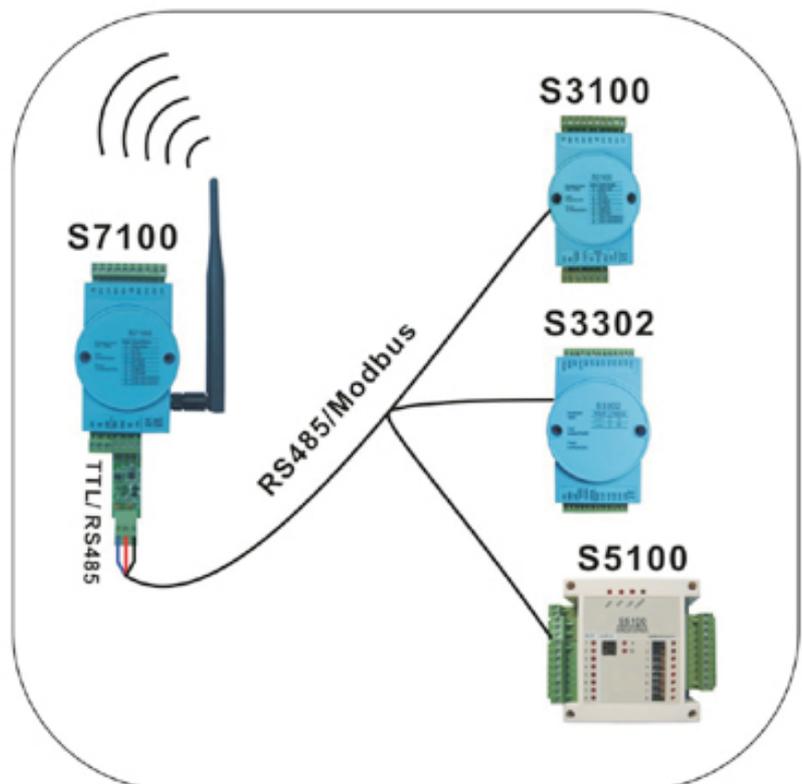
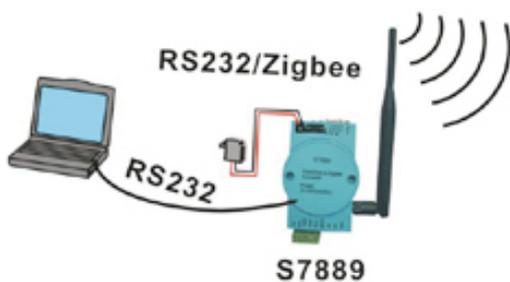
Pin 5 : EARTH

Pin 6 : DATA+

Pin 7 : DATA-



Application Diagram:



Converters

S6000: TTL to Ethernet Converter

Descriptions:

S6000 is an intelligent plug-and-play TTL to Ethernet adapter that enables any devices or machines with a serial port to connect to Ethernet network and Internet. It features a powerful built-in device server, so you can access to your serial device from anywhere in the world over internet. S6000 is easily configured via Ethernet, and can also be set up through the serial port.



Highlights:

- Auto detected 10/100M High speed Ethernet
- AUTO MDI/MDIX, Use crossover cable or parallel cable connection
- Baud rate 300 ~ 25600 bps
- TCP Server, TCP Client, UDP client , UDP server
- Can work as Virtual COM
- Auto reconnect TCP connection
- Socket program reference
- Free setup software and setup Agreement available
- Agreement: ETHERNET, ARP, IP, UDP, TCP
- 3.3V and 5V two power input interface
- OEM and custom versions available

Technical Data:

DC Power Supply Voltage: Two kinds of DC Voltage could be chosen

VCC----- 3.3V (min. 3.15, max. 3.45 V)

VDD----- 5V (min. 4.5V, max. 5.5V)

Operating supply current-----Max 180 mA

Ambient temperature:

Operation----- -20~85°C (-13~185°F)

Storage----- -40~100°C (-40~212°F)

Converters

S9888 : Zero delay RS485 repeater

Descriptions:

S9888 is zero-delay and high speed opto-couplers RS485 repeater. The baudrate available from 300bps to 115200bps.



Highlights:

- Zero-delay repeater
- Surge-protected and isolated Rs485 ensure reliability
- Allows for up to 254 unique devices on one RS485 network

Technical Data:

Output BUS-----	Isolated RS485
Output Protection-----	Lightning, static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

Converters

S9889: Zero-delay Rs232 to Rs485 converter

Descriptions:

S9889 is zero-delay and high speed opto-couplers Rs232 to RS485 converter. The baudrate available from 300bps to 115200bps.



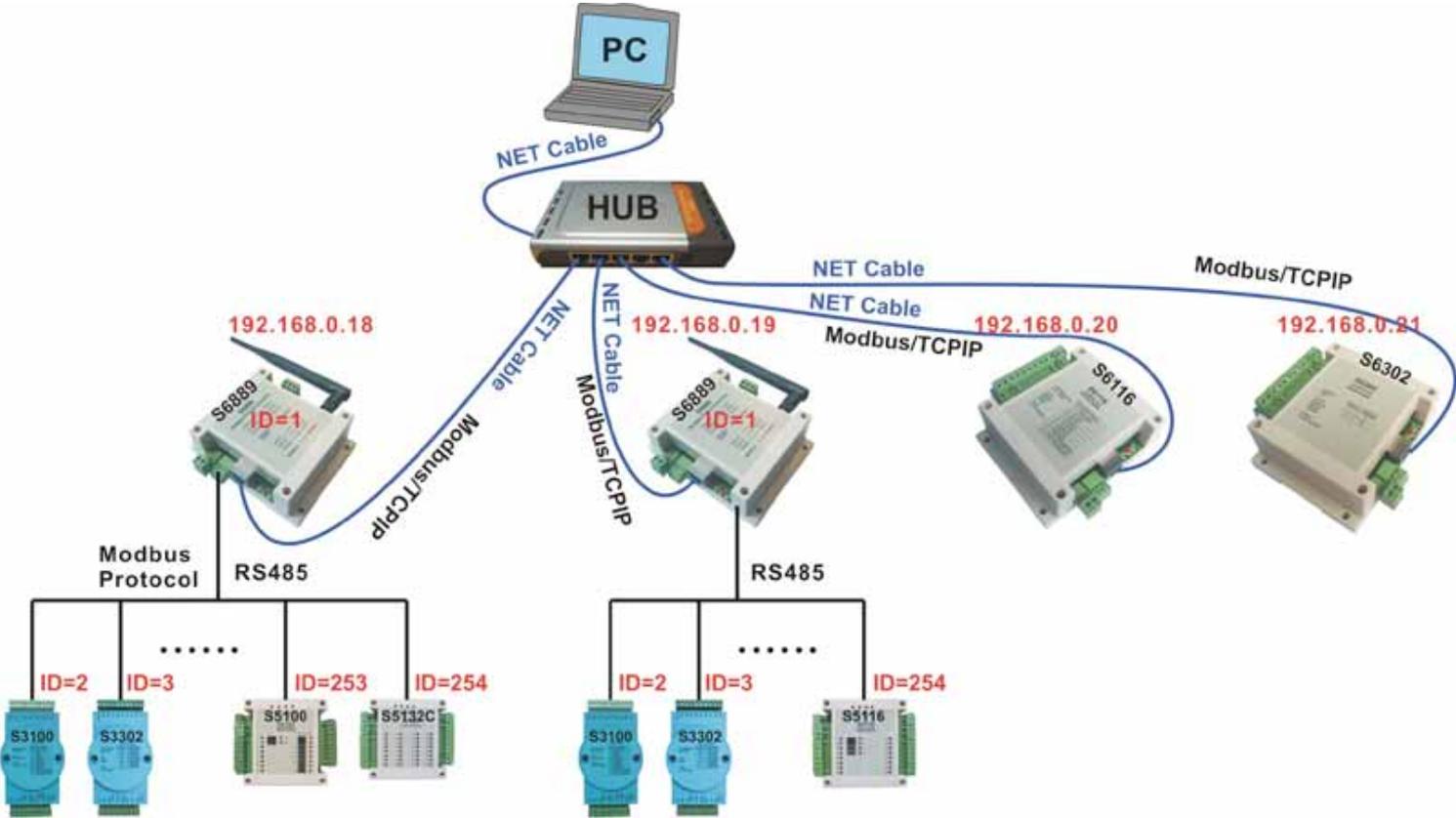
Highlights:

- Zero-delay converter
- Overvoltage and reverse protection
- Surge-protected and isolated Rs485 ensure reliability
- Allows for up to 254 unique devices on one RS485 network

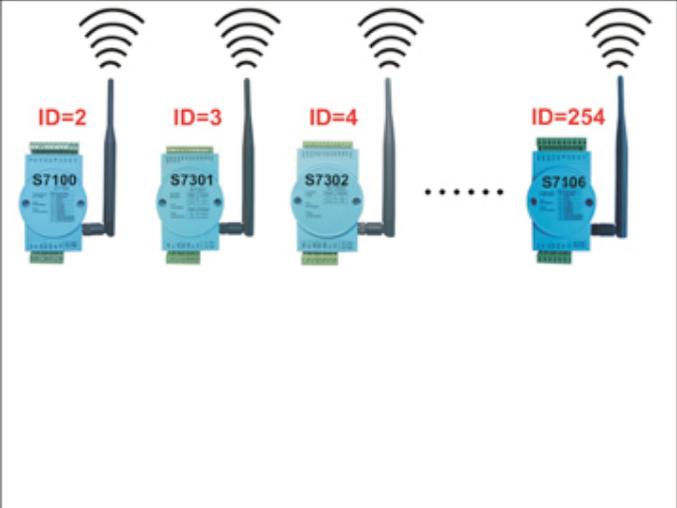
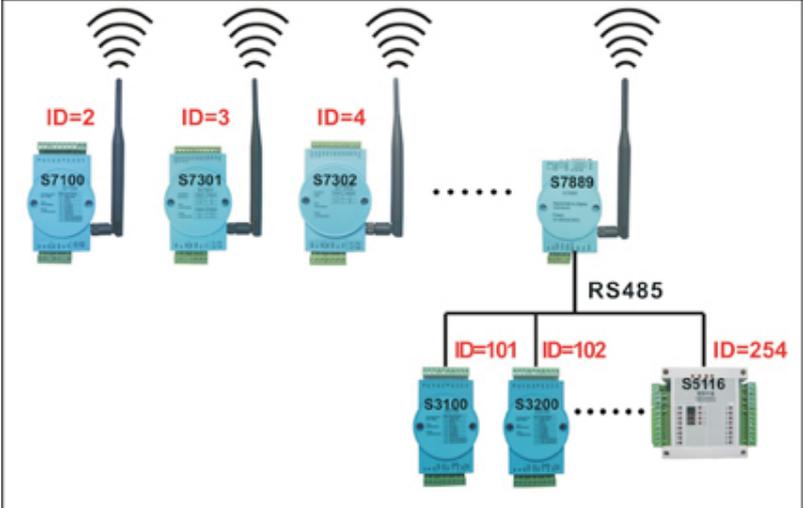
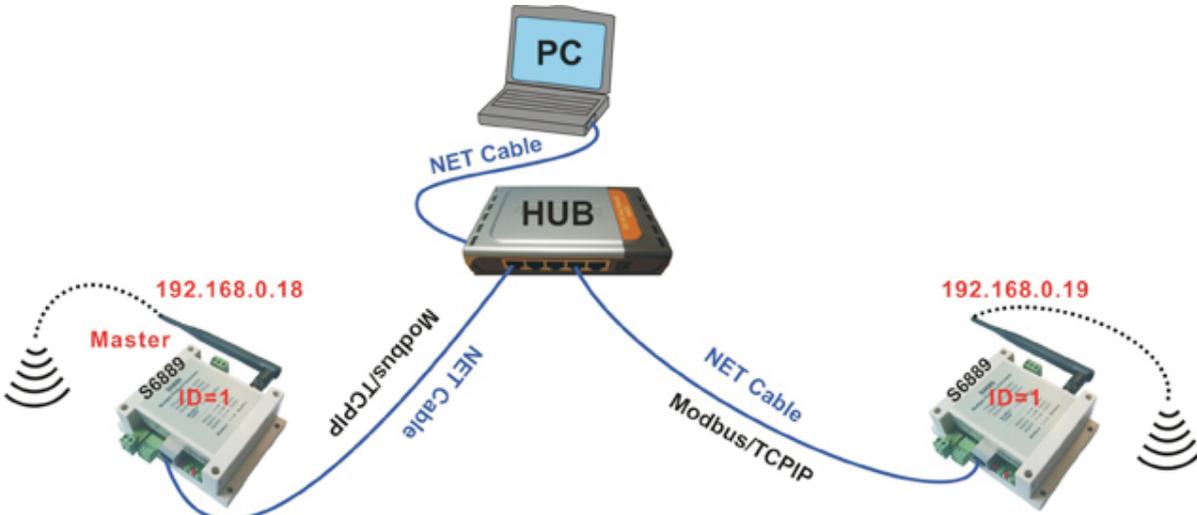
Technical Data:

Input-----	RS232
Output BUS-----	Isolated RS485
Output Protection-----	Lightning, static
Power input-----	9~24V(AC/DC)
Power consumption-----	<0.6W
Ambient temperature:	
Operation-----	-20~85°C (-13~185°F)
Storage-----	-40~100°C (-40~212°F)
Ambient humidity-----	10%~90%RH
Material,enclosure-----	Flame proof plastic
Enclosure rating-----	IP31
Colour-----	Ice Blue
Size-----	100*69*25 mm

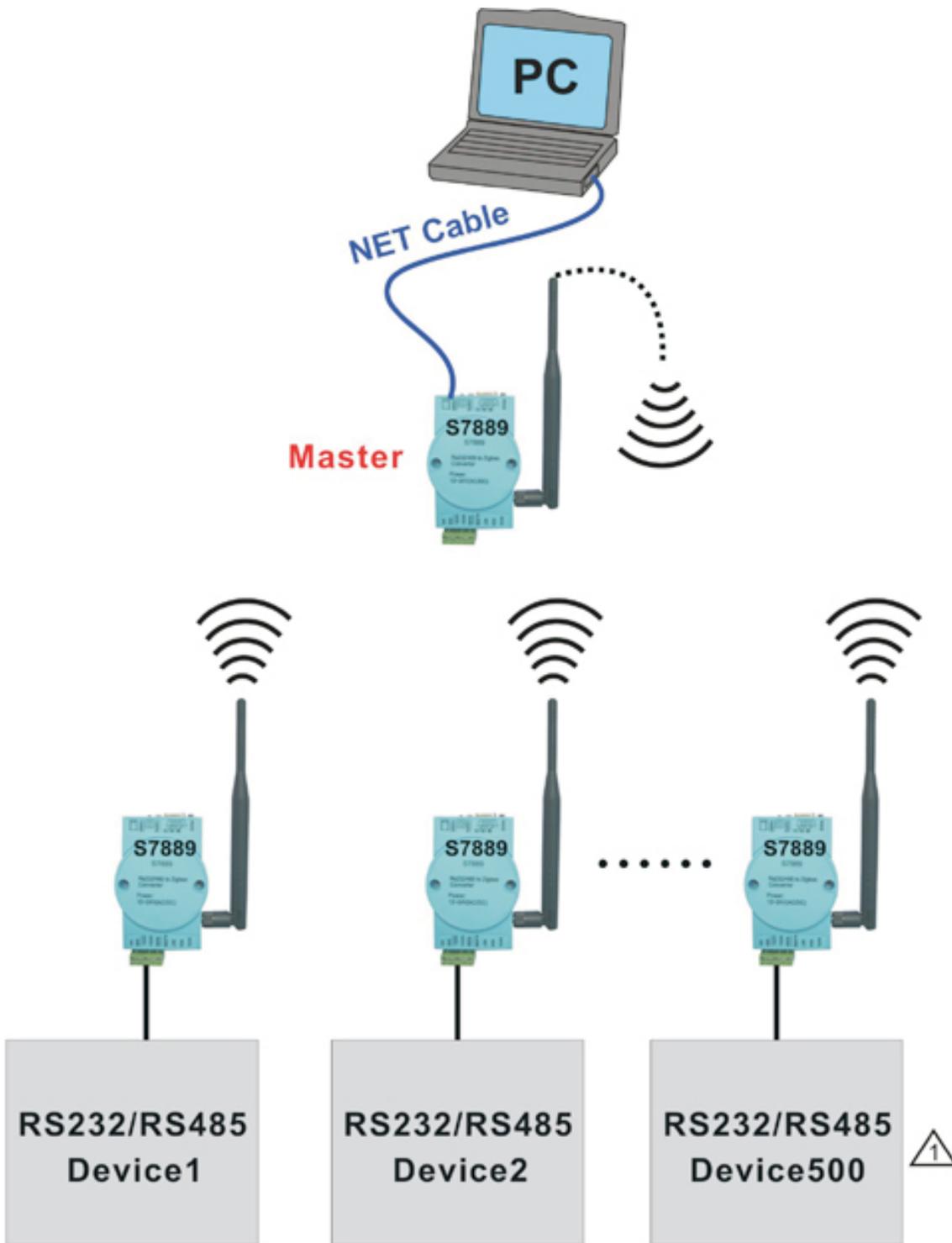
SHJ Modules Applications Wiring1:



SHJ Modules Applications Wiring2:



SHJ Modules Applications Wiring3:



⚠️ RS232/RS485 Devices can be any protocol with RS232/RS485 port.