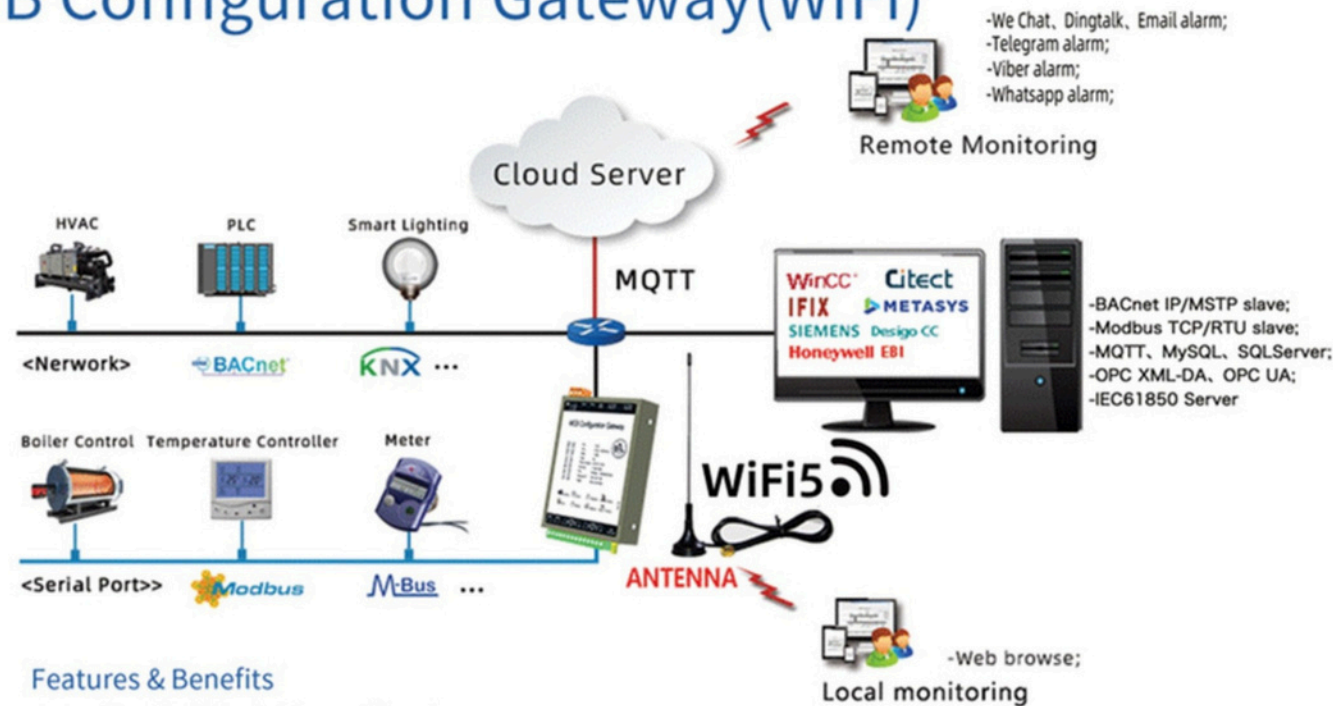




WEB Configuration Gateway(WiFi)



Features & Benefits

- BTL,CE,ISO 9001.SGS certifications;
- 400+ protocols convert to BACnet,Modbus ,MQTT,OPC UA,OPC XML-DA;
- You can build full SCADA, HMI, and alarming systems, and other applications that put you fully in control of your processes, right from your phone,PC;
- Support the timer, which can be used to start/stop the device at a fixed time or set values;
- Support converting to BACnet server, Modbus server, MQTT/Cloud server,IEC61850 Server;
- Support user group management, configuration screen monitoring can set permissions;
- Support various forms of timing, event triggering, and provide a custom function;
- Support local data simulation;
- MapStorage is open, can be customized;
- Support remote monitoring of terminal device by smart phone, iPad and PC;
- Support WeChat, DingTalk, Telegram,Viber alarm,Whatsapp alarm;
- Cloud Platform Integration work with WEB gateway;
- Support cloud configuration;



Product Model	HMI1001-ARM-WiFi	HMI1002-ARM-WiFi	HMI2004-ARM-WiFi	HMI2004-A9-WiFi
Support Tags	256	512	1024	2048
Support Protocols	Support More than 400 protocols			
System	Linux			
Processor	1 core 300MHz		4 core 1.4GHz	
Memory	64M		512M	
Flash	128M		8G	
Power consumption	6W		8W	
Power Supply	AC/DC 12-24V			
WiFi	WIFI5			
Interface	1 x 10M/100M NIC		2 x 10M/100M NIC	
Serial Port	1 x RS485/RS232(Alternative)	2 x RS485/RS232(Alternative)	2 x Full Isolation RS485,2 x RS485/RS232(Alternative)	
Dimension/mm	118mm×74mm×35mm	129mm×81mm×34mm	147mm×95mm×35mm	
Weight	300g	350g	450g	
Material	Galvanized Steel			
Installation	DIN-Rail			
Temperature	-20 ~ 70°C(working) -40 ~ 85°C(storage and transportation)			
Humidity	20% ~ 90% non-condensing (working) 15% ~ 95% non-condensing (storage and transportation)			

BACnet Server

Register type	Number of registers		
	1001	1002	2004/touch panel
AI(Read only)	256 (0-255)	512 (0-511)	2048 (0-2047)
AO(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)
AV(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)
BI(Read only)	256 (0-255)	512 (0-511)	2048 (0-2047)
BO(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)
BV(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)
MSI(Read only)	256 (0-255)	512 (0-511)	2048 (0-2047)
MSO(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)
MSV(Read&Write)	256 (0-255)	512 (0-511)	2048 (0-2047)

Modbus Server

Register type	Number or registers		
	1001	1002	2004
0X(Read&Write)	256	512	1024
1X(Read only)	256	512	1024
4X(Read&Write)	256	512	1024
3X(Read only)	256	512	1024

Register Address Specification of Modbus Slave

Register Address of 4X&3X = BACnet Register Address * 2 + 1

Register Address of 0X&1X = BACnet Register Address + 1

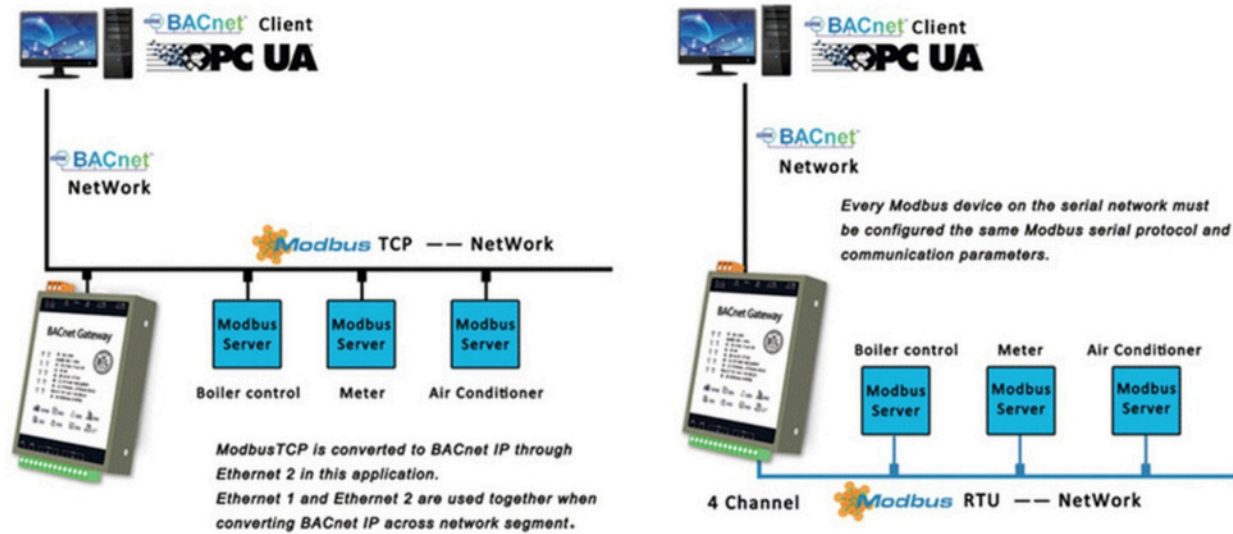
BACnet Gateway

The BACnet Gateway of Sunfull allows different devices to communicate through BACnet MSTP or BACnet IP. The gateway works as a translator between two networks, allowing devices of different protocols to communicate with each other. It can realize centralized control and supervise the devices.



Example1: Connecting ModbusTCP to BACnetIP

Example2: Connecting ModbusRTU to BACnetIP



Features & Benefits

- BTL, CE and ISO 9001 SGS Certifications;
- Monitoring the utilization of memory;
- Support JS to realize logic control;
- Support COV subscription function;
- Support BBMD cross network segment access;
- Compatible with BACnet Router function;
- Support multiple BACnet devices;
- Support browsing via WEB and monitoring the real-time data;
- Support linear conversion, fetch bit, high and low byte conversion;
- Support internal variable function, support monitoring the state of the devices;
- Support AI, AO, AV, BI, BO, BV, MSI, MSO, MSV, Schedule, Trendlog eleven register types;



Product Model	BAC1001-ARM	BAC1002-ARM	BAC2004-ARM	BAC2004-A9
Support Tags	256	512	1024	2048
Support Protocols	Support More than 400 protocols			
System	Linux			
Processor	1 core 300MHz		4 core 1.4GHz	
Memory	64M		512M	
Flash	128M		8G	
Power consumption	6W		8W	
Power Supply	AC/DC 12-24V			
Interface	1 x 10M/100M NIC		2 x 10M/100M NIC	
Serial Port	1 x RS485/RS232(Alternative)	2 x RS485/RS232(Alternative)	2 x Full Isolation RS485, 2 x RS485/RS232(Alternative)	
Dimension/mm	118mmx74mmx35mm	129mmx81mmx34mm	147mmx95mmx35mm	
Weight	300g	350g	450g	
Material	Galvanized Steel			
Installation	DIN-Rail			
Temperature	-20 ~ 70°C(working) -40 ~ 85°C(storage and transportation)			
Humidity	20% ~ 90% non-condensing (working) 15% ~ 95% non-condensing (storage and transportation)			

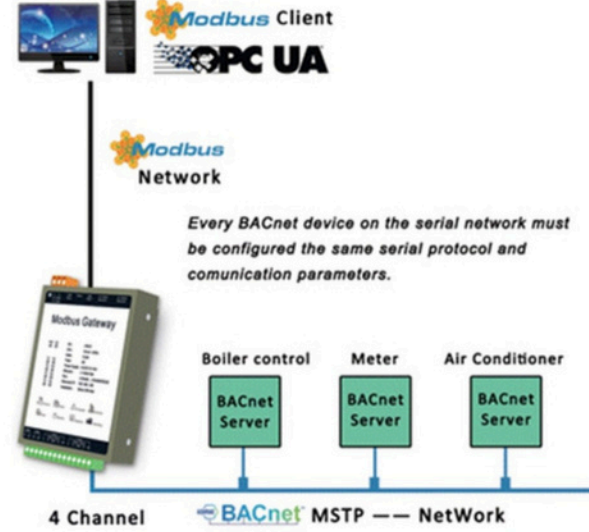
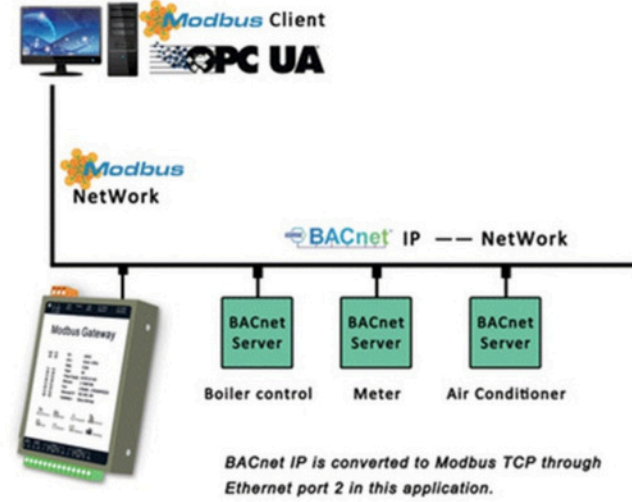
Modbus Gateway

The Modbus Gateway of Sunfull allows different devices to communicate through Modbus RTU or Modbus TCP simultaneously. The gateway works as a translator between two networks, allowing devices of different protocols to communicate with each other.



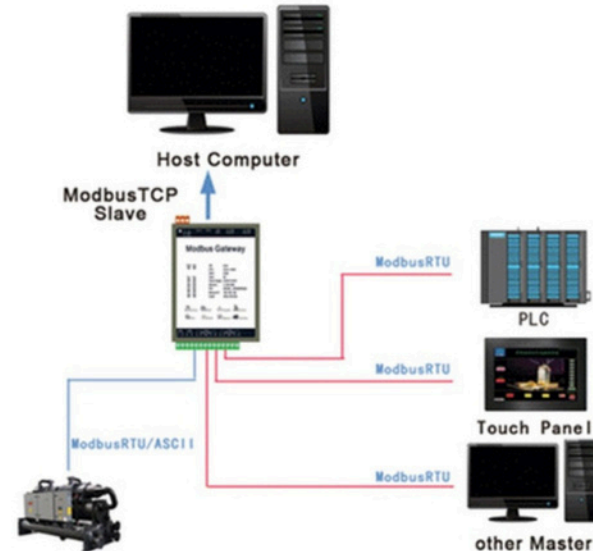
Example1: Connecting BACnetIP to ModbusTCP

Example2: Connecting BACnetMSTP to ModbusTCP



Features & Benefits

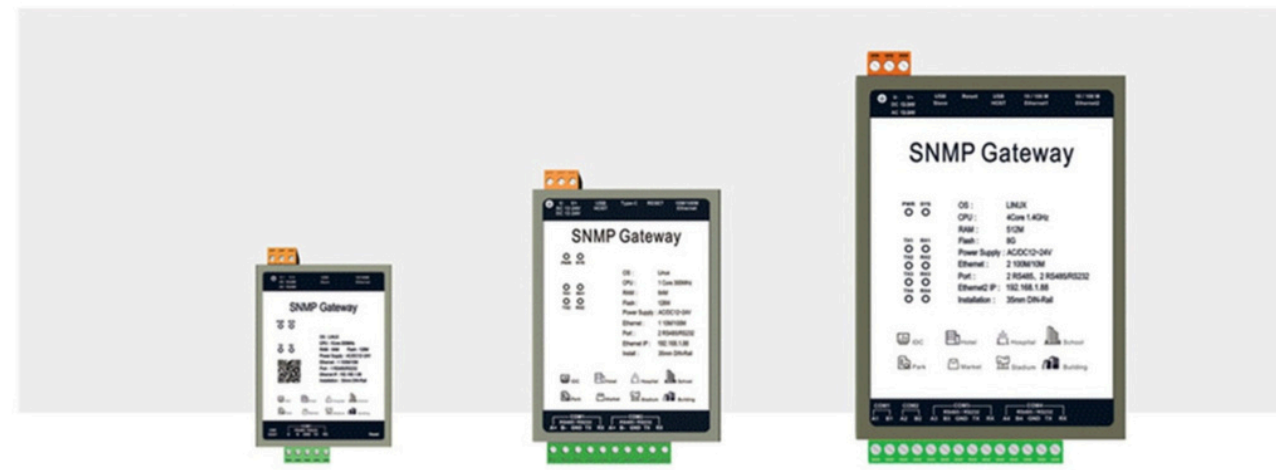
- CE and ISO 9001 SGS Certifications;
- Monitoring the utilization of memory;
- Support browsing via WEB and monitoring the real-time data;
- Support linear conversion, fetch bit, high and low byte conversion;
- Compatible with Modbus Router function;
- Support internal variable function, support monitoring state of the devices;
- Support 0X、1X、3X、4X four register types;
- Support JS to realize logic control;
- Support multiple Modbus devices;



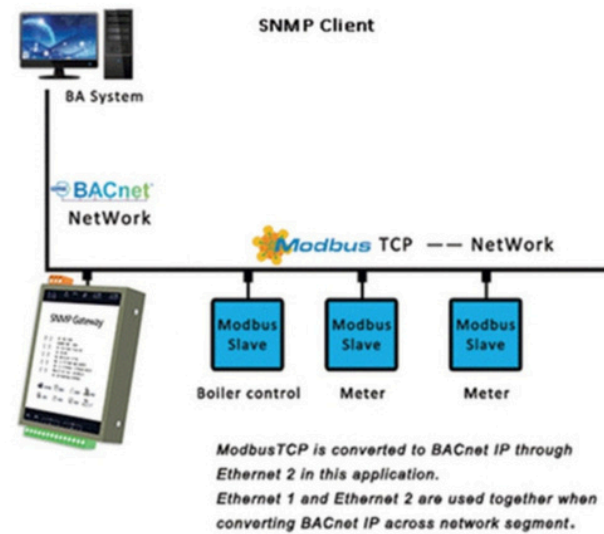
Product Model	MOD1001-ARM	MOD1002-ARM	MOD2004-ARM	MOD2004-A9
Support Tags	256	512	1024	2048
Support Protocols	Support More than 400 protocols			
System	Linux			
Processor	1 core 300MHz		2 core 800MHz	4 core 1.4GHz
Memory	64M		128M	512M
Flash	128M		8G	
Power consumption	6W		8W	
Power Supply	AC/DC 12-24V			
Interface	1 x 10M/100M NIC		2 x 10M/100M NIC	
Serial Port	1 x RS485/RS232(Alternative)	2 x RS485/RS232(Alternative)	2 x Full Isolation RS485,2 x RS485/RS232(Alternative)	
Dimension/mm	118mm×74mm×35mm	129mm×81mm×34mm	147mm×95mm×35mm	
Weight	300g	350g	450g	
Material	Galvanized Steel			
Installation	DIN-Rail			
Temperature	-20 ~ 70°C(working) -40 ~ 85°C(storage and transportation)			
Humidity	20% ~ 90% non-condensing (working) 15% ~ 95% non-condensing (storage and transportation)			

SNMP Gateway

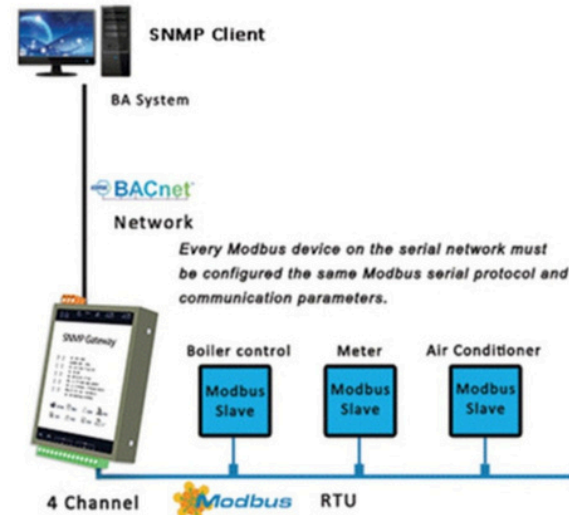
SNMP Gateways can convert non-standard protocols into SNMP interfaces, and then other SNMP clients such as computer room management systems can access and monitor third-party device data through SNMP interfaces.



Example1: Connecting ModbusTCP to SNMP



Example2: Connecting ModbusRTU to SNMP



Features & Benefits

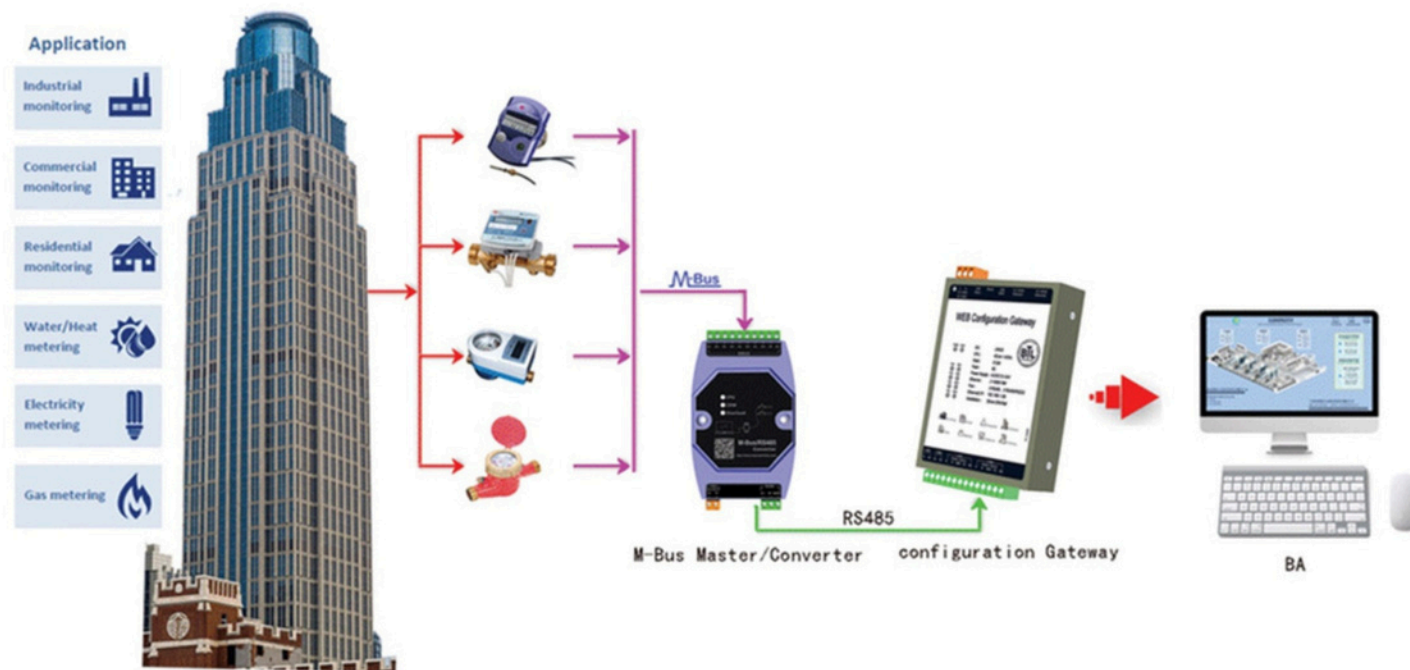
- Support more than 400 protocols to be converted to SNMP (v1/v2/v3) protocol at the same time;
- Monitoring the utilization of memory;
- Support browsing via WEB and monitoring the real-time data;
- Support linear conversion, fetch bit, high and low byte conversion;
- Support internal variable function, support monitoring state of the devices;
- Support JS to realize logic control;
- Add a new private protocol to support SNMP, which can be completed within 2 weeks;

Product Model	SNMP1001-ARM	SNMP1002-ARM	SNMP2004-ARM	SNMP2004-A9
Support Tags	256	512	1024	2048
Support Protocols	Support More than 400 protocols			
System	Linux			
Processor	1 core 300MHz		4 core 1.4GHz	
Memory	64M		512M	
Flash	128M		8G	
Power consumption	6W		8W	
Power Supply	AC/DC 12-24V			
Interface	1 x 10M/100M NIC		2 x 10M/100M NIC	
Serial Port	1 x RS485/RS232(Alternative)	2 x RS485/RS232(Alternative)	2 x Full Isolation RS485, 2 x RS485/RS232(Alternative)	
Dimension/mm	118mm×74mm×35mm	129mm×81mm×34mm	147mm×95mm×35mm	
Weight	300g	350g	450g	
Material	Galvanized Steel			
Installation	DIN-Rail			
Temperature	-20 ~ 70°C(working) -40 ~ 85°C(storage and transportation)			
Humidity	20% ~ 90% non-condensing (working) 15% ~ 95% non-condensing (storage and transportation)			

M-Bus Converter

Product Introduction

Convert the M-Bus to RS485;
up to 160 M-Bus devices can be connected to ;
M-Bus Master PC upper computer or window device
access to terminal meter;



Feature

- MAX amount of M-Bus devices:160;
- RS485 transmission direction: automatic;
- M-Bus short connection protection;
- Power supply: AC/DC12V-24V;
- Mounting type : on DIN rail;

HBS Converter

Product Introduction

The Sunfull HBS2001 communication module can be connected to the Daikin air conditioner and convert the HomeBus to RS485. Use HBS2001 and Sunfull gateway, it can converter Daikin HomeBus to standard Modbus or BACnet Protocol.

