

PRODUCT CATALOGUE | 2019/2020



SHANGHAI SUNFULL AUTOMATION CO., LTD



Focus on Web HMI & IOT

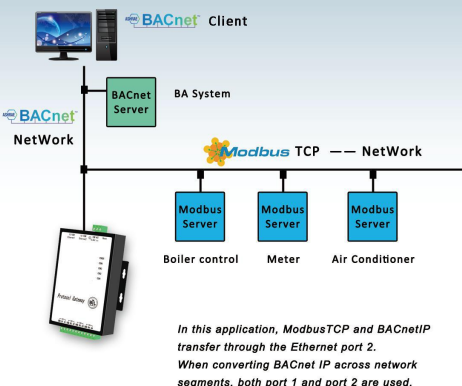
BACnet Gateway

The Sunfull X2BACnet gateway allows different devices to communicate on a BACnet MSTP and BACnet IP simultaneously. The gateway works as a translator between the two networks allowing Multiprotocol devices to show up as individual BACnet-compliant devices on a BACnet/IP and BAC MSTP network.

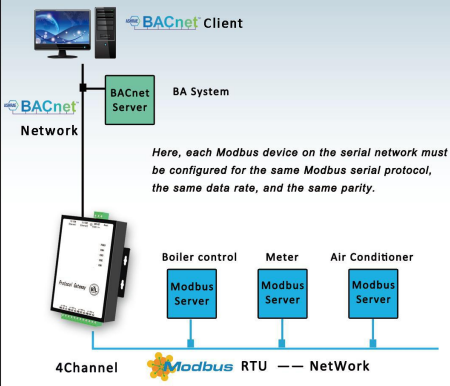
This enables central control and supervision of Modbus devices in a building for example.



Sample1: Connecting ModbusTCP to BACnetIP



Sample2: Connecting ModbusRTU to BACnetIP



Typical Industries



Master Functionality:

BACnet
Modbus
SNMP
IEC104
Mbus
DLT645
OPC
Others

Slave Functionality:

BACnet IP
BACnet MSTP

Features & Benefits

- BTL, CE and ISO9001 SGS Certifications;
- Memory utilization monitoring;
- Easy to Configure by X2BACnet
- X2BACnet software green installation free;
- Support WEB browsing and data monitoring;
- Support linear conversion, fetch bit, high and low byte conversion;
- Support internal variable function, support to view the online state of the device;
- Support AI, AO, AV, BI, BO, BV, MSI, MSO, MSV nine register types;
- Support JS script to realize logic control;
- Support cov subscription function;
- Support BBMD cross-network segment access;

Product Model	BAC1002-ARM	BAC1002-Lite	BAC2004-ARM	BAC2004-Lite	BAC2004-A9
System	LINUX		WINCE		LINUX
Processor	1Core 300MHz		1Core 400MHz		4Core 1.4GHz
Memory	64M		64M		512M
Flash	128M		256M		8G
Power	6W		8W		
Power Supply	AC/DC 12-24V				
Ethernet	1 x 100M/10M Industrial network card		2 x 100M/10M Industrial network card		
Serial Port	2 x RS485/RS232(Alternative)		4 x Full Isolation RS485		
Size/mm	129×86×34		160×116×37		142×91×35
Weight/g	350g		500g		250g
Texture	Aluminium alloy		Carbon Steel		Aluminium alloy
Installation	DIN-Rail Mount		DIN-Rail Mount/Wall Mount		DIN-Rail Mount
Support Points	256		1024		2048
Support Protocols	200+	Modbus	200+	Modbus	200+

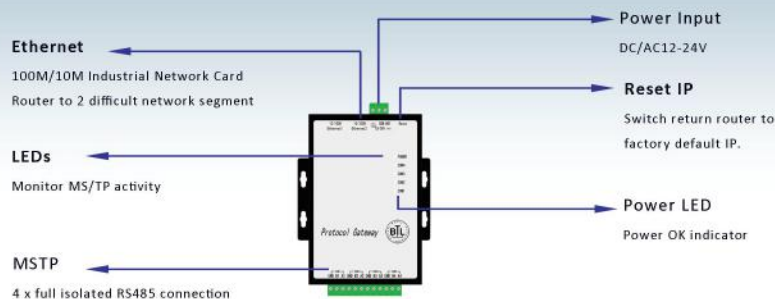
Our Customers



BACnet Router

The BACnet Router is providing stand-alone routing between BACnet networks such as BACnet/IP, and BACnet MS/TP.

Router configuration is accomplished via web pages.



Versatile Routing Between ...

- BACnet MS/TP and BACnet/IP
- BACnet MS/TP and two BACnet/IP networks
- Two BACnet/IP networks

Convenient Installation

- DC/AC12~24V input voltage
- Router1002-ARM(Din-rail mount)
- Router2004-A9(Din-rail mount/Wall mount)

Feature & Benefits

- Web Configuration
- Download Manual
- User Management
- Ethernet port settings
- Router settings
- Time Settings
- Firmware Information
- System Information
- log message

Web Page Configuration, Manual download

Router Setup

Router Setup

Router configuration is accomplished via web pages.

Router Setup

Router configuration is accomplished via web pages.

Network Setup

Router configuration is accomplished via web pages.

Download Manual

Router configuration is accomplished via web pages.

Note:

1. Router itself needs to set the network number. For example, if two network ports are used for routing, the network number and port number need to be distinguished.
2. The MAC address of Router itself is fixed at 127, so the MAC address of the device on the MSTP bus can't be set to 127.
3. MAC addresses between buses can be duplicated and need to be distinguished by the network number (the network number set by each com port should be unique).
4. The baud rate of each Com port is set independently. Currently, the supported bus baud rate is 9600,19200,38400,57600,76800,115200, etc.

Note:

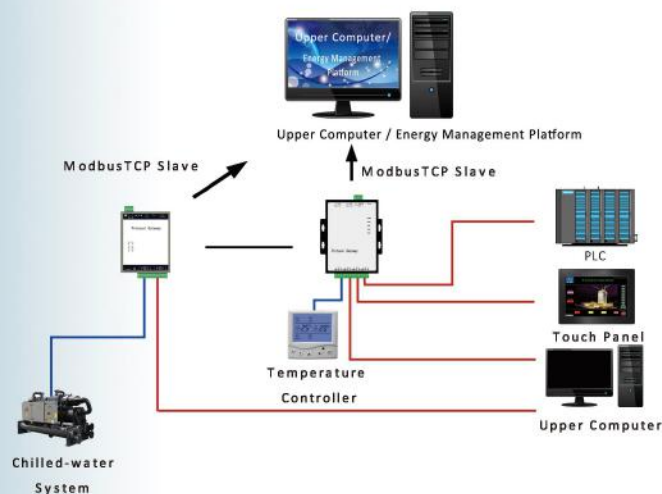
Router2004 model has two Ethernet ports can be routed simultaneously to two different IP segments, Router1002 model has only one Ethernet port can be set.

Cooperative Partner



HUB Gateway

ModbusHUB gateway converts common Modbus communication protocols into multiple Modbus slave stations, so that multiple host stations can access a slave device at the same time.



Features & Benefits

- ModbusHub configuration software green installation free;
- Support common Modbus protocol to Modbus slave station;
- Support multiple master stations to access one slave station;
- Support WEB browsing and data monitoring;
- Support linear conversion, fetch bit, high and low byte conversion;
- Support internal variable function, support to view the online state of the device;
- Support four register types: 0X, 1X, 3X and 4X;
- Support JS script and realize logic control;

Product Model	HUB1002-ARM	HUB2004-ARM	HUB2004-A9
System	LINUX	WINCE	LINUX
Processor	1Core 300MHz	1Core 400MHz	4Core 1.4GHz
Memory	64M	64M	512M
Flash	128M	256M	8G
Power	6W	8W	
Power Supply	AC/DC 12-24V		
Ethernet	1 x 100M/10M Industrial network card	2 x 100M/10M Industrial network card	
Serial Port	2 x RS485/RS232(Alternative)	4 x Full Isolation RS485	
Size/mm	129×86×34	160×116×37	142×91×35
Weight/g	350g	500g	250g
Texture	Aluminium alloy	Carbon Steel	Aluminium alloy
Installation	DIN-Rail Mount	DIN-Rail Mount/Wall Mount	DIN-Rail Mount
Support Points	256	1024	2048
Acquisition Protocols	Modbus		

Our Customers



IO Module

IO module adopts the mainstream ARM core 32-bit microprocessor, supports Modbus RTU, BACnet MS/TP, ModbusTCP, ModbusUDP several protocols (choose one), can realize the rapid expansion of the controller I/O module.



Digital input/output type

Mixed Input/Output type

IOM8400

IOM16800

N8400

IOM12682

N6442

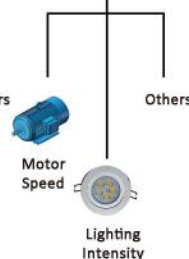
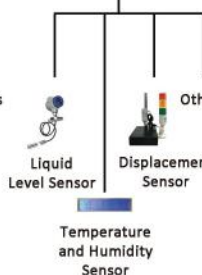
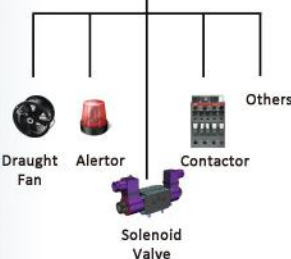
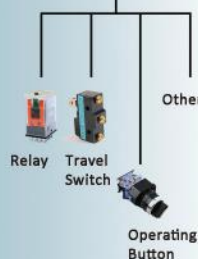


Digital Input

Digital Output

Analog Input

Analog Output



Features & Benefits

1. Support Modbus RTU protocol, which can realize communication connection with the controller supporting this protocol and carry out rapid I/O port expansion. Please refer to the instructions of Modbus RTU testing tool for specific use.
2. Support BACnet MS/TP protocol, which can realize communication connection with the controller supporting this protocol, and carry out rapid I/O port expansion. Please refer to the instructions of BACnet MS/TP testing tool for specific use.
3. ModbusTCP and ModbusUDP protocols are supported. Communication connection can be realized with the controller supporting the protocol for rapid I/O port expansion.

Technical Specifications

Product Model	IOM12682	IOM16800	IOM8400	N8400	N6442
Processor	32bit				
Clock Frequency	72MHz				
Memory	64KBFlash memory, 20KB of random storage memory				
Power Supply	DC/AC 24V				
Digital Input	Support for dry contact input				
Digital Output	1.Support 24VDC <3A 2.Support for dry contact output		Support for dry contact output	Support 24V DC/AC <3A	
Analog Input	Support 0-10V、0-20mA Input		Nonsupport		Support 0-10V、4-20mA Input
Analog Output	Support 0-10V、0-20mA Output		Nonsupport		Support 0-10V、4-20mA Output
Size/mm	174×108×58mm(L×W×H)			115×110×40	145×110×40
Communication 1	ModbusRTU (2.4k/4.8k/9.6k/19.2k)			-	
Communication 2	BACnet MS/TP (9.6k/19.2k/38.4k/76.8k)			-	
Communication 3	-			ModbusTCP 10/100M	
Communication 4	-			ModbusUDP 10/100M	

Default Parameters:

ModbusRTU module: The default communication parameters of factory are baud rate 9600, data bit 8, stop bit 1, no check, and the default device ID is 1.

BACnetMSTP module: The default communication parameters of factory are baud rate 38400, data bit 8, stop bit 1, no check, and the default device ID is 1.

ModbusTCP module: The default IP of factory is 192.168.1.88, port number is 502.

Our Customers



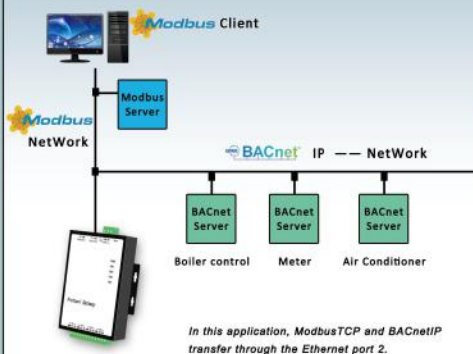
Modbus Gateway

The Sunfull Automation X2Modbus gateway allows different devices to communicate on a Modbus TCP and Modbus RTU simultaneously. The gateway works as a translator between the two networks allowing Multiprotocol devices to show up as individual Modbus-compliant devices on a ModbusTCP and Modbus RTU network.

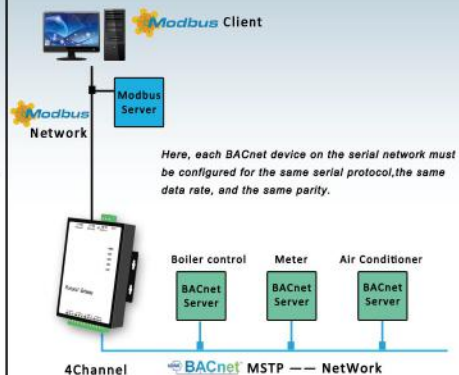
This enables central control and supervision of Modbus devices in a building for example.



Sample1: Connecting BACnetIP to ModbusTCP



Sample2: Connecting BACnetMSTP to ModbusTCP



Typical Industries



Master Functionality:

BACnet
Modbus
SNMP
IEC104
Mbus
DLT645
OPC
Others

Slave Functionality:

ModbusTCP
ModbusRTU

Features & Benefits

- BTL, CE and ISO9001 SGS Certifications;
- Memory utilization monitoring;
- Easy to Configure by X2Modbus
- X2Modbus configuration software green installation free;
- Support WEB browsing and data monitoring;
- Support linear conversion, fetch bit, high and low byte conversion;
- Support internal variable function, support to view the online state of the device;
- Support 0X、1X、3X、4X four register types;
- Support JS script to realize logic control;

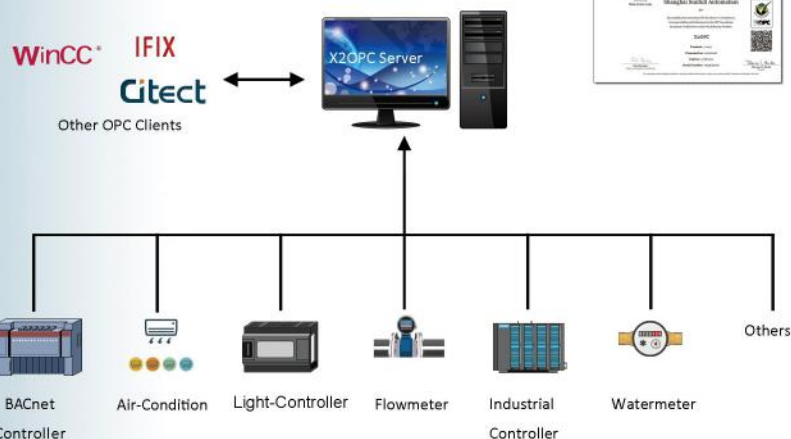
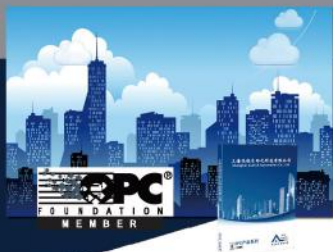
Product Model	MOD1002-ARM	MOD1002-Lite	MOD2004-ARM	MOD2004-Lite	MOD2004-A9
System	LINUX		WINCE		LINUX
Processor	1Core 300MHz		1Core 400MHz		4Core 1.4GHz
Memory	64M		64M		512M
Flash	128M		256M		8G
Power	6W		8W		
Power Supply	AC/DC 12-24V				
Ethernet	1 x 100M/10M Industrial network card		2 x 100M/10M Industrial network card		
Serial Port	2 x RS485/RS232(Alternative)		4 x Full Isolation RS485		
Size/mm	129×86×34		160×116×37		142×91×35
Weight/g	350g		500g		250g
Texture	Aluminium alloy		Carbon Steel		Aluminium alloy
Installation	DIN-Rail Mount		DIN-Rail Mount/ Wall Mount		DIN-Rail Mount
Support Points	256		1024		2048
Support Protocols	200+	Modbus	200+	Modbus	200+

Our Customers



OPC Server/Client

Member of the international OPC foundation;
Pass the CTT Certification;
X2OPC server, has applied in 60+ WANDA PLAZA, easy access to huiyun platform.



Features & Benefits

Product Model: X2OPC

- X2OPC software green installation free;
- Support nearly 200 protocols convert to OPC server;
- Support WEB browsing and data monitoring;
- Support OPC DA 1.0、2.0 and OPC XML-DA;
- Support JS script to realize logic control;
- Solve the problem that configuration software such as Citect, IFIX, Wonderware, WINCC, kingview and powercontrol cannot connect some uncommon control devices;
- With its own WEB server, iPad and smart phone can visit on-site devices through WEB pages and monitor the running state of devices.



Product Model: OPC2Modbus

- OPC2Modbus software is installation-free and supports English and Chinese;
- Support to read OPC server to ModbusRTU and ModbusTCP slave station;
- Support Modbus synchronous or asynchronous write value operation
- Support data storage to database;
- OPC2Modbus software can be used to solve the DCOM configuration problem encountered in remote access to OPC server (remote OPC disadvantages: unstable communication, DCOM configuration trouble, not conducive to maintenance).



Product Model: OPC2WEB

- Software is free;
- Software is green and installation-free, support English and Chinese;
- Support OPC server convert to OPC XML-DA, enabling the traditional OPC server to support WEB access;
- Make the Webs、Niagara of Honeywell by sunfull's free soapclient interface access Kepware OPC server and industrial configuration software WinCC;

OPC Introductions

Product Model	Size/mm	Weight/g	Color	Authorization
Softkey	NULL	NULL	NULL	Soft Authorization
USBkey	44*16*8	8	Dark Blue	USBkey Authorization

Our Customers



WEB Configuration Gateway

X2View are fully HTML5 and CSS3 compliant and can run natively on any device with a web browser — no plugins required.

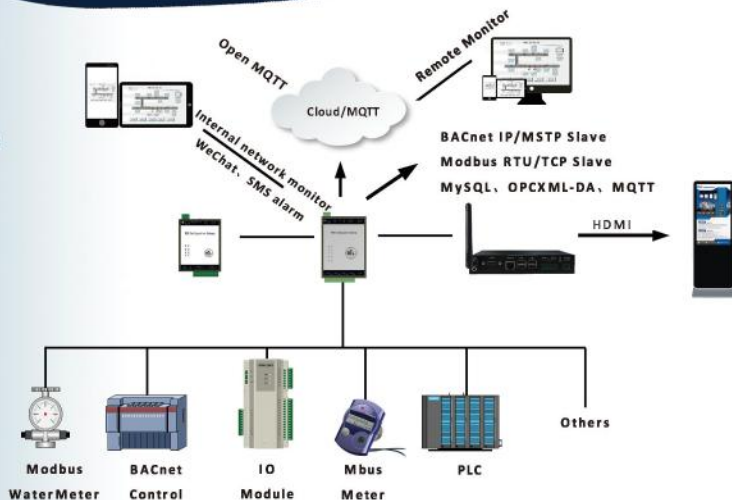
Cross-Platform Compatibility

Run Web-Clients on Desktop or Mobile

Modular Configurability



Support Protocol:



Features & Benefits

- BTL,CE,ISO9001.SGS certifications;
- 200+ protocols convert to BACnet,Modbus ,MQTT,OPC UA,OPC XML-DA;
- Easy to configure by X2VIEW;
- 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 ;
- Cloud Platform Integration work with WEB gateway;
- Support converting to BACnet server, Modbus server, MQTT/Cloud server;
- Support WeChat, SMS and Mail alarm ;
- Support user group management, configuration screen monitoring can set permissions;
- Support various forms of timing, event triggering, and provide a custom function;
- Support 200 historical memory points, storage every 5 minutes, about a year;
- Built-in MySql database;
- Support local data simulation;
- MapStorage is open, can be customized;
- Support the timer, which can be used to start/stop the device at a fixed time or set values;
- Support remote monitoring of terminal device by smart phone, iPad and PC;
- Support cloud configuration;

Product Model	HMI1002-ARM	HMI2004-A9	HMI2001-PI
System	LINUX	LINUX	LINUX
Processor	1core 300MHz	4core 1.4GHz	4core 1.2GHz
Memory	64M	512M	1G
Flash	128M	8G	8G
Power	6W	8W	8W
Power Supply	AC/DC 12-24V		
Ethernet	1 x 100M/10M Industrial network card	2 x 100M/10M Industrial network card	1x Gigabit Ethernet interface, 1x Wifi port
Serial Port	2 x RS485/RS232(Alternative)	4 x Full Isolation RS485	1 x RS485/RS232(Alternative)
Size/mm	129×86×34	142×91×35	202.6×90.8×32
Weight	350g	250g	500g
Texture	Aluminium alloy		Galvanized plate
Installation	DIN-Rail Mount		Wall Mount
Support Points	512	2048	
Support Protocols	200+		
Video/Audio	-		Support HDMI(1.3&1.4)

BACnet Server

Register Type	Register Number
AI(Read only)	2048(0~2047)
AO(Read&Write)	2048(0~2047)
AV(Read&Write)	2048(0~2047)
BI(Read only)	2048(0~2047)
BO(Read&Write)	2048(0~2047)
BV(Read&Write)	2048(0~2047)
MSI(Read only)	2048(0~2047)
MSO(Read&Write)	2048(0~2047)
MSV(Read&Write)	2048(0~2047)

Modbus Server

Register Type	Register Number
0X(Coil Status) (Read&Write)	2048(1~2048)
1X(Input Status) (Read only)	2048(1~2048)
4X(Holding Register) (Read&Write)	2048(1~4096)
3X (Input Register) (Read only)	2048(1~4096)

Register TypeModbus Server Register Address Specification

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

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

Our Customers



WEB HMI

-X2VIEW provides robust and reliable functionality in an HMI solution that scales from a stand-alone, machine-level HMI to a distributed visualization solution.

-X2View are fully HTML5 and CSS3 compliant and can run natively on any device with a web browser — no plugins required.

Cross-Platform Compatibility

Run Web-Clients on Desktop or Mobile



Support Protocol:

MQTT

BACnet

Modbus

SNMP

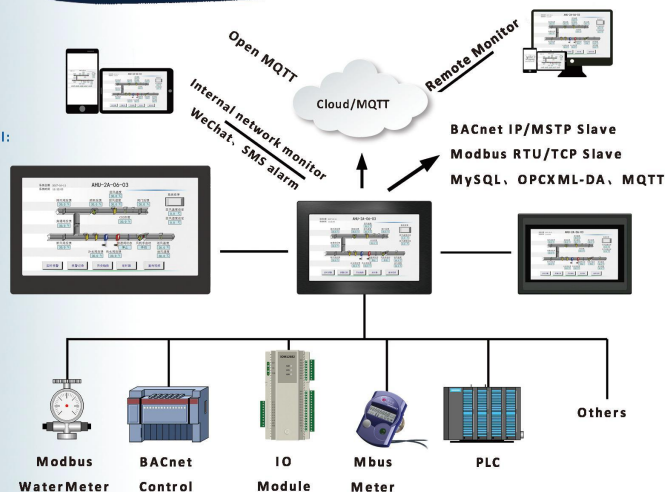
IEC104

Mbus

DLT645

OPC

Others



Features & Benefits

- BTL, CE, ISO9001, SGS certifications;
- 200+ protocols convert to BACnet, Modbus, MQTT, OPC UA, OPC XML-DA;
- Easy to configure by X2VIEW;
- 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;
- Cloud Platform Integration work with WEB gateway;
- Support converting to BACnet server, Modbus server, MQTT/Cloud server;
- Support WeChat, SMS and Mail alarm;
- Support user group management, configuration screen monitoring can set permissions;
- Support various forms of timing, event triggering, and provide a custom function;
- Support 200 historical memory points, storage every 5 minutes, about a year;
- Built-in MySQL database;
- Support local data simulation;
- MapStorage is open, can be customized;
- Support the timer, which can be used to start/stop the device at a fixed time or set values;
- Support remote monitoring of terminal device by smart phone, iPad and PC;
- Support cloud configuration;

Product Model	W15-1041	W10-1041	W7-1041
System	LINUX		
Processor	4Core 1.4GHz		
Memory	1G		
Flash	8G		
Interface	1 Ethernet, 4 RS485, 1 RS232		
Touch Type	Resistance-Type		
Power Supply	DC/AC 12-24V		
Displayer	15.6" TFT	10.1" TFT	7" TFT
Hole Size/mm	387×246mm	257×176mm	210.5×146.5mm
Resolution/pixel	1920×1080	1280×800	1024×600
Texture	Metal Shell		Plastic Casing
Weight	2850g	1850g	550g
Power	≤15W	≤10W	≤8W
Wifi Module	Optional	Optional	Optional
4G Module	Optional	Optional	Optional

BACnet Server

Register Type	Register Number
AI(Read only)	2048(0~2047)
AO(Read&Write)	2048(0~2047)
AV(Read&Write)	2048(0~2047)
BI(Read only)	2048(0~2047)
BO(Read&Write)	2048(0~2047)
BV(Read&Write)	2048(0~2047)
MSI(Read only)	2048(0~2047)
MSO(Read&Write)	2048(0~2047)
MSV(Read&Write)	2048(0~2047)

Modbus Server

Register Type	Register Number
0X(Coil Status) (Read&Write)	2048(1~2048)
1X(Input Status) (Read only)	2048(1~2048)
4X(Holding Register) (Read&Write)	2048(1~4096)
3X (Input Register) (Read only)	2048(1~4096)

Register TypeModbus Server Register Address Specification

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

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

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Singapore Authorized Distributor :

