



GW-5492

BACnet/IP to Modbus RTU Gateway

GW-5492 is a fully configurable universal Modbus RTU to BACnet/IP gateway. The GW-5492 includes BACnet/IP Server and Modbus RTU Master which is used to make Modbus RTU devices accessible on a BACnet network.

BACnet (Building Automation and Control Networking) protocol has been designed specifically to meet the communication needs of building automation and control systems for applications such as heating, ventilating, air-conditioning control...etc.

The GW-5492 contains a large number of BACnet objects (AI, AO, AV, BI, BO, BV, MSI, MSO, MSV) gives you flexibility in mapping Modbus RTU registers to any combination of BACnet objects. Multiple BIBBs (DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM, DS-COV-B...etc.) are supported. All the data transfer is configurable using a standard Web browser.



Applications

- Building Automation
- Heating, Ventilating, and Air-conditioning Control
- Lighting Control
- Access Control
- Fire Detection Systems



Features

General Features

- Quickly and Cost Effectively integrate networks
- Provide PWR/Communication Status indication LED
- Read/Write any standard Modbus register via BACnet
- No Programming Required
- Modbus register mapping configured via web interface

BACnet

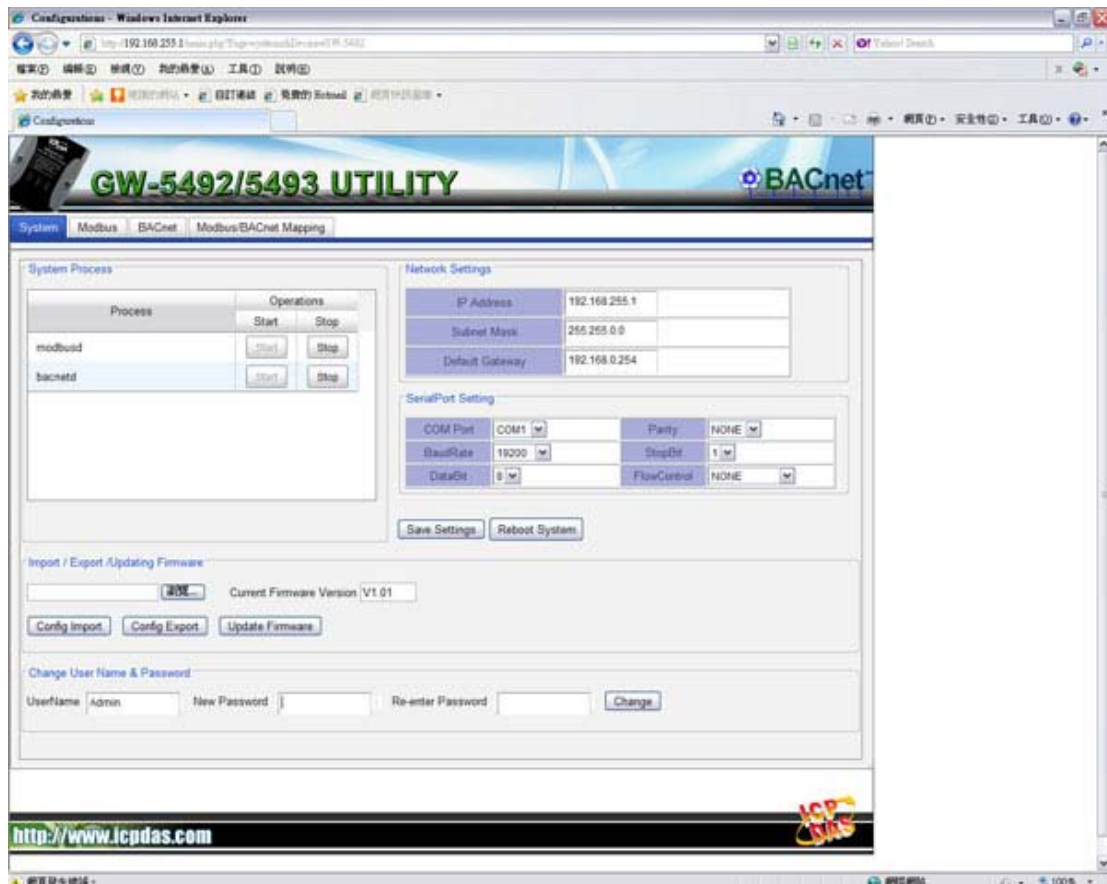
- Fully Compliant with BACnet/IP Server
- Supports up to 200 objects each of types: Analog Input, Analog Output, Analog Value, Binary Input, Binary Output, Binary Value, Multi-State Input, Multi-State Output,
- BIBB (BACnet Interoperability Building Blocks) Supported: DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DS-COV-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B, DM-UTC-B, DM-RD-B

Modbus RTU

- Fully User Configurable Modbus RTU Slave
- Supports Modbus coils, input register, holding registers.
- Supports for Function Code 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x10, 0x0F.
- Baud rates supported: 2400, 4800, 9600, 19200, 38400, 57600, and 115200 bps.

Utility

- Configured via standard web browser.
- Provide Modbus network configuration interface
- Provide BACnet configuration interface.



Comparison Table

ICP DAD Fieldbus Gateway Comparison Table:

	GW-5492	GW-5493	GW-7228	GW-7433D	I-7231D	I-7232D
Support Protocol	BACnet/IP Server	BACnet/IP Server	J1939	CANopen Master	CANopen Slave	CANopen Slave
	Modbus RTU Master	Modbus TCP Client	Modbus RTU Slave	Modbus TCP Server/RTU Slave	DCON Master	Modbus RTU Master
Comm. Interface	RS-232 RS-485 Ethernet	RS-232 Ethernet	RS-232 RS-422 RS-485	RS-232 RS-485 Ethernet	RS-232 RD-485	RS-232 RD-485

	I-7241D	I-7242D	I-7243D	GW-7243D	GW-7552	GW-7553
Support Protocol	DeviceNet Slave	DeviceNet Slave	DeviceNet Master	DeviceNet Slave	PROFIBUS DP-V0 Slave	PROFIBUS DP-V0 Slave
	DCON Master	Modbus RTU Master	Modbus TCP Server	Modbus TCP / RTU / ASCII Master	Modbus RTU/ASCII Master/Slave	Modbus TCP / RTU / ASCII Master / Slave
Comm. Interface	RS-232 RD-485	RS-232 RD-485	Ethernet	RS-232 RS-422 RS-485	RS-232 RD-485	RS-232 RD-485

Hardware Specifications

System	
CPU	32-bit
SDRAM	64 MB
Flash	64 MB
EEPROM	16 KB
Communication Ports	
COM1	RS-232 (Rx, Tx, and GND); Non-isolation
COM2	RS-485 (D2+, D2-); 2500 VDC; isolated
Ethernet	10/100Base-TX Ethernet Controller
Protocol	
Modbus	Modbus RTU Master
BACnet	BACnet/IP Server
BACnet Objects	AI, AO, AV, BI, BO, BV, MSI, MSO, MSV (Maximum: 200 each)
BIBB Supported	DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DS-COV-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-TS-B, DM-UTC-B, DM-RD-B
Mechanical	
Dimensions (W x L x H)	91mm x 132mm x 52mm
Installation	DIN-Rail
Environmental	
Operating Temp.	-25 ~ +75 °C
Storage Temp.	-30 ~ +85 °C
Humidity	5 ~ 90% RH, non-condensing
Power	
Input Range	+10 ~ +30 VDC

Isolation	1 kV
Consumption	4.8 W (0.2 A @ 24 Vdc)

Ordering Information

GW-5492	BACnet/IP to Modbus RTU Gateway
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