



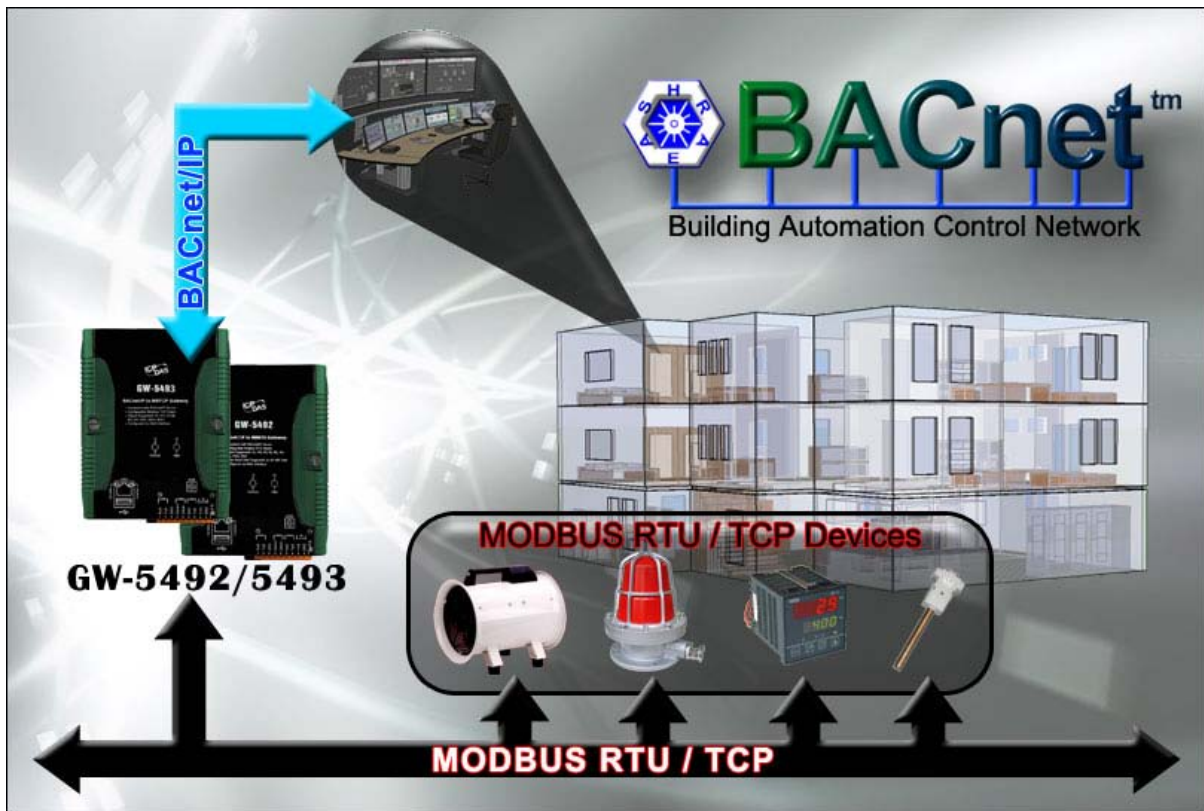
GW-5493

BACnet/IP to Modbus TCP Gateway

GW-5493 is a fully configurable universal Modbus RTU to BACnet/IP gateway. The GW-5493 includes BACnet/IP Server and Modbus TCP Client which is used to make Modbus TCP 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-5493 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



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

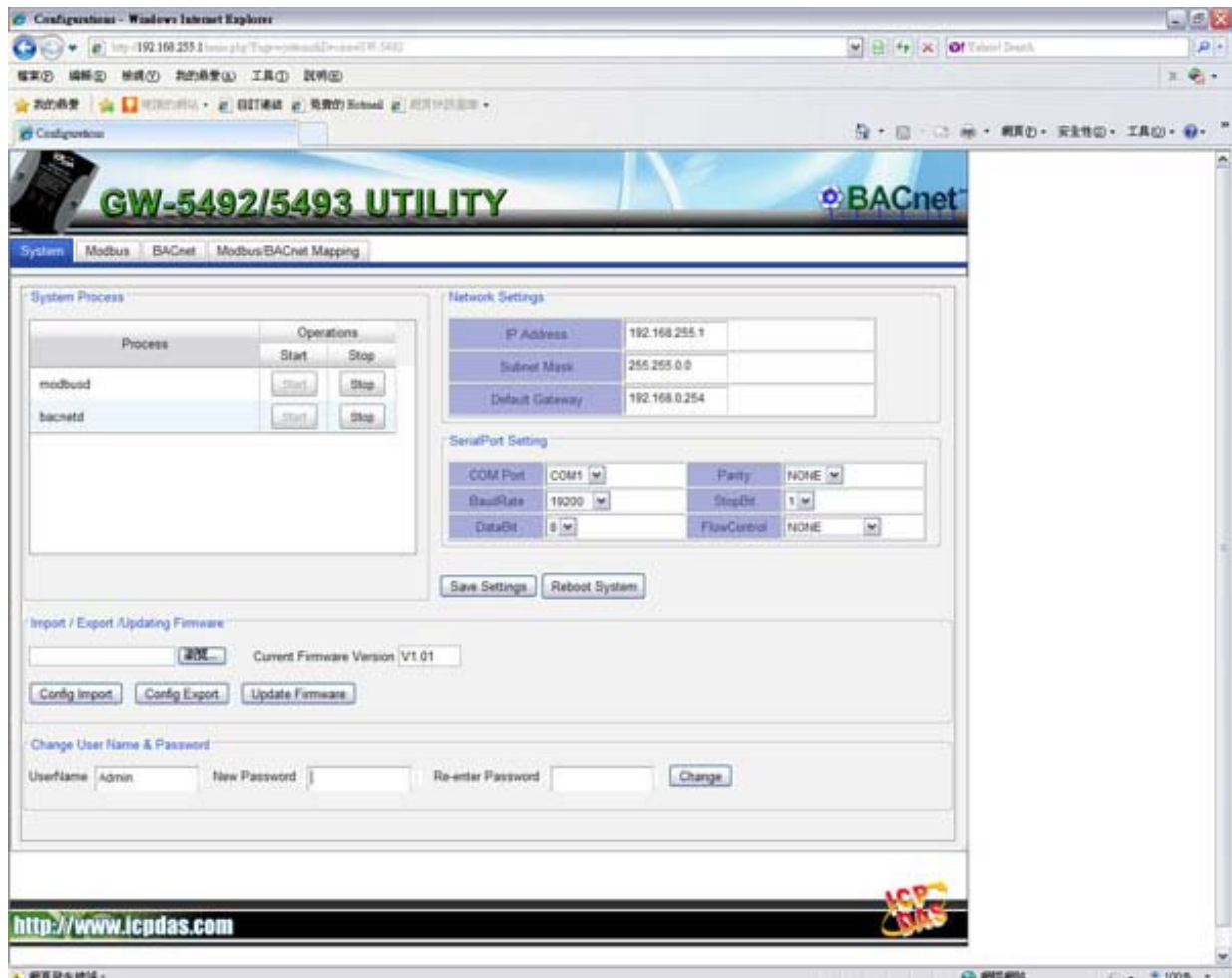
- Fully Compliant with BACnet/IP Server
- Supports up to 200 objects each of types: Analog Input, Analog Output, Analog Value, Binary Input, Binary Output, Binary Value, Multi-State Input, Multi-State Output,
- BIBB (BACnet Interoperability Building Blocks) Supported: DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B,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

Modbus TCP

- Fully User Configurable Modbus TCP Client
- Supports Modbus coils, input register, holding registers.
- Supports for Function Code 0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x10, 0x0F.

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-232	RS-232	RS-232	RS-232	RS-232
	RS-485	Ethernet	RS-422	RS-485	RD-485	RD-485
	Ethernet		RS-485	Ethernet		

	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	RS-232	Ethernet	RS-232	RS-232	RS-232
	RD-485	RD-485		RS-422	RD-485	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
Ethernet	10/100Base-TX Ethernet Controller
Protocol	
Modbus	Modbus TCP Client
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-5493

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