



GW-2492M

BACnet/IP to Modbus RTU Gateway

Introduction

GW-2492M is a network gateway allowing BACnet client devices to be accessed Modbus network as a Modbus RTU master. The BACnet/IP protocol is used to relay and exchange information between building devices. GW-2492M 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-B,...etc.) are supported. All the data transfer is configurable using a standard Web browser.

Specifications

Ethernet	
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
Connector	RJ-45 with Ethernet indicator
Protocol	BACnet/IP Server
Maximum Connections	8
COM Interface	
Connector	terminal block (RS485:D+, D- ; RS-232:TXD, RXD, GND)
Baud Rate (bps)	1200,2400,4800,9600,19200,38400,57600,115200
Communication format	N81,N82,O71,O81,E71,E81
Terminator Resistor	Built-in 120 ohm terminator resistor, enabled/disabled via Jump
Isolation	3 kV VDC for DC to DC, 2500 Vrms for photo couple
Protocol	Modbus RTU Master
Maximum Connections	32
Power	
Protection	Power reverse polarity protection
EMS Protection	ESD, Surge, EFT
Supply Voltage	+10 VDC ~ +30 VDC
Power Consumption	5 W @ 24 VDC
LED Indicator	
LED (Round)	Power (1), BACnet/IP Status (1), BACnet/IP Net(1), Modbus RTU TxD/RxD/Link (3)
Ethernet LED	Ethernet LED Ethernet Status (RJ-45) (2)
Mechanism	
Installation	DIN-Rail
Casing	Metal
Dimensions	33 x 120 x 116 mm (W x L x H)
Environment	
Operating Temp.	-25°C ~ +75°C
Storage Temp.	-30°C ~ +80°C
Humidity	10 ~ 90% RH, non-condensing

Features

- Read/Write Modbus registers via BACnet objects
- Configurable BACnet/IP Server
- Configurable Modbus RTU Master
- Supports BACnet AI, AO, AV, BI, BO, BV, MSI, MSO, MSV Object Types
- Supports Modbus discrete inputs, coils, input registers and holding registers
- Supports up to 600 DI, 600 DO, 600 AI and 600 AO to transfer to BACnet Objects
- Simple data translation allows you to manipulate data as it passes between protocol



BACnet/IP Support

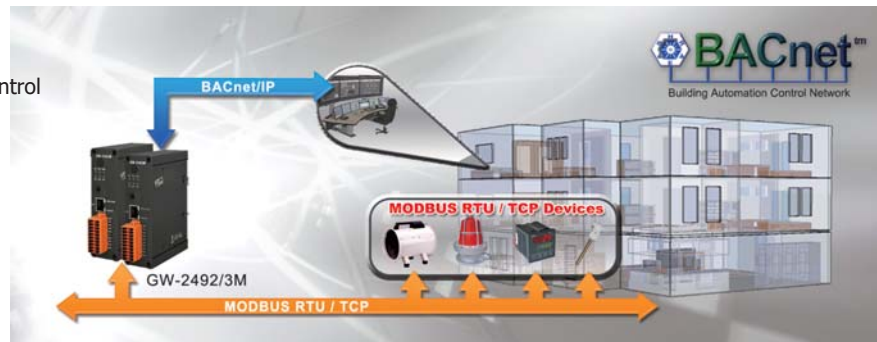
Objects	BI, BO, BV, AI, AO, AV, MSI, MSO, MSV (Convert modbus 600 DI, 600 DO, 600 AI and 600 AO)
BIBBs	DS-RP-B, DS-RPM-B, DS-WP-B, DS-WPM-B, DM-DDB-B, DM-DOB-B, DM-DCC-B, DM-RD-B

Modbus RTU Supports

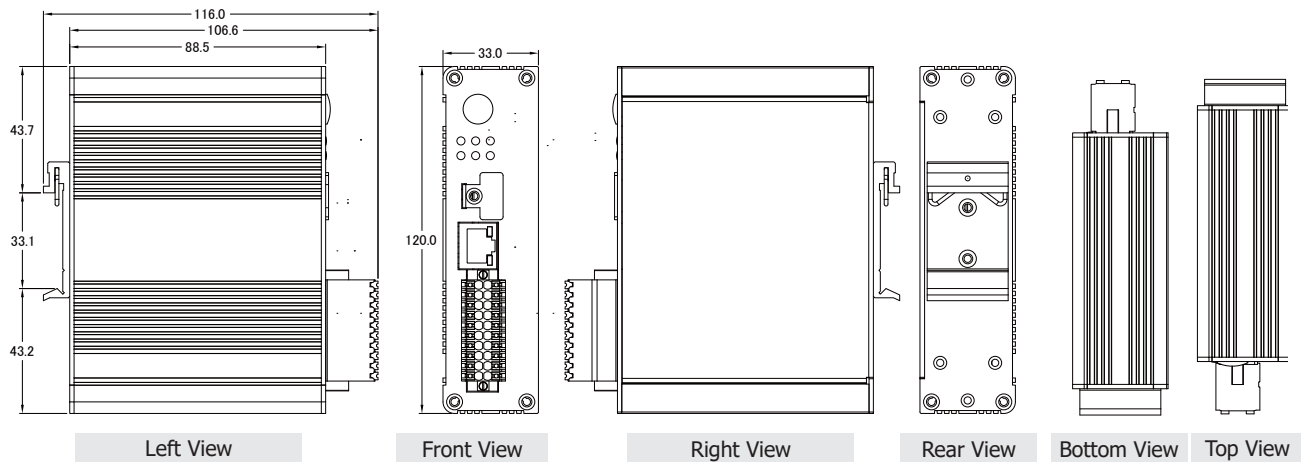
Function Code	0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x10, 0x0F
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Applications

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



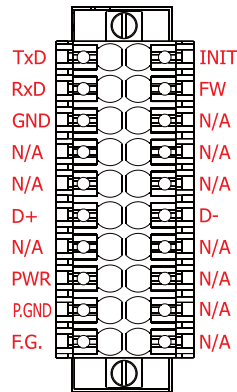
Dimensions (Units: mm)



Ordering Information

GW-2492M	BACnet/IP Server to Modbus RTU Master Gateway (RoHS)
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Pin Assignments



Pin Name	Description
F.G.	Power +10 ~ +30 VDC
GND	
PWR	RS-485
D+	
D-	
GND	RS-232
RxD	
TxD	
INIT	Connect to GND, Change to Initial Mode
FW	Connect to GND, Change to Bootloader Mode