



## GW-2439M

Modbus TCP to BACnet/IP Gateway

### Features

- Read/Write BACnet objects via Modbus registers
- Configurable BACnet/IP Client
- Configurable Modbus TCP Server
- 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 500 DI/O and 1000 AI/O modbus registers to convert remote BACnet objects' present value
- Simple data translation allows you to manipulate data as it passes between protocol



### Introduction

GW-2439M is a network gateway allowing Modbus TCP client devices to be accessed BACnet/IP network as a BACnet/IP client. The BACnet/IP protocol is used to relay and exchange information between building devices. GW-2439M contains a large number of BACnet objects (AI, AO, AV, BI, BO, BV, MSI, MSO, MSV) gives you flexibility in mapping Modbus TCP registers to any combination of BACnet objects. BACnet interoperability building blocks (DS-RP-A, DS-RPM-A, DS-WP-A, DS-WPM-A, DM-DDB-A, DM-DOB-A, DM-DCC-A, DM-RD-A) are Supported. All the data transfer is configurable using ICPDAS Utility.

### Specifications

<b>Ethernet</b>	
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
Connector	RJ-45 with Ethernet indicator
<b>Protocol</b>	
Modbus	Modbus TCP Server (Max. 8 client connections)
Modbus Function Code	0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x10, 0x0F
BACnet	BACnet/IP Client
BACnet Clients	32 (Max. support)
BACnet Objects	AI, AO, AV, BI, BO, BV, MSI, MSO, MSV
BIBBs	DS-RP-A, DS-RPM-A, DS-WP-A, DS-WPM-A, DM-DDB-A, DM-DOB-A, DM-DCC-A, DM-RD-A
<b>Power</b>	
Protection	Power reverse polarity protection
EMS Protection	ESD, Surge, EFT
Supply Voltage	+10 VDC ~ +30 VDC
Power Consumption	5 W @ 24 VDC
<b>LED Indicator</b>	
LED (Round)	Power (1), BACnet/IP Status (1), BACnet/IP Net(1), Modbus TCP TxD / RxD / Link (3)
Ethernet LED	Ethernet LED Ethernet Status (RJ-45) (2)
<b>Mechanism</b>	
Installation	DIN-Rail
Casing	Metal
Dimensions	33 x 120 x 116 mm (W x L x H)
<b>Environment</b>	
Operating Temp.	-25°C ~ +75°C
Storage Temp.	-30°C ~ +80°C
Humidity	10 ~ 90% RH, non-condensing

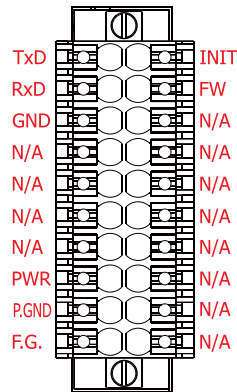
## BACnet/IP Support

Objects	Binary Input / Binary Output / Binary Value / Analog Input / Analog Output Analog Value / Multi-state Input Multi-state Output / Multi-state Value
BIBBs	DS-RP-A, DS-RPM-A, DS-WP-A, DS-WPM-A, DM-DDB-A, DM-DOB-A, DM-DCC-A, DM-RD-A

## Modbus TCP Support

Function Code	0x01, 0x02, 0x03, 0x04, 0x05, 0x06, 0x10, 0x0F
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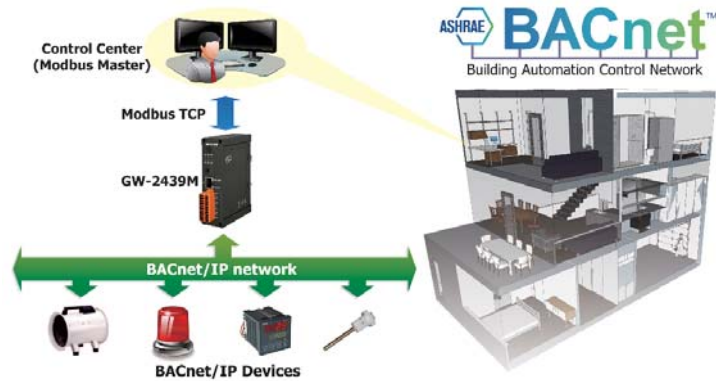
## Pin Assignments



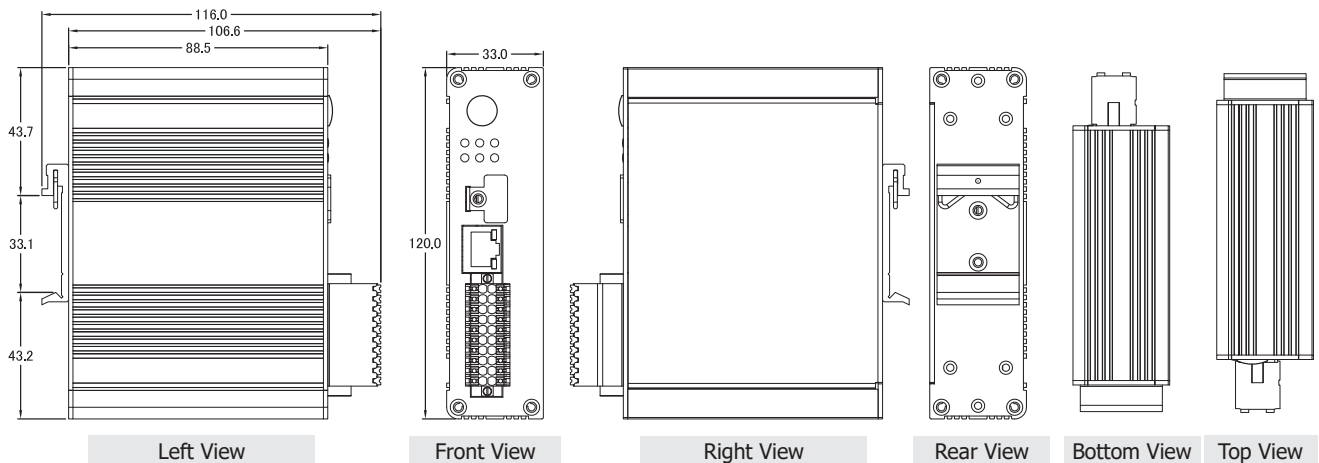
Pin Name	Description
F.G.	Power +10 ~ +30 VDC
GND	
PWR	
GND	RS-232 (Reserve)
RxD	
TxD	
INIT	Connect to GND, Change to Initial Mode
FW	Connect to GND, Change to Bootloader Mode

## Applications

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



## Dimensions (Units: mm)



## Ordering Information

<b>GW-2439M</b>	Modbus TCP to BACnet/IP Gateway (RoHS))
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