GW-7662
PROFINET to Modbus RTU/ASCII Gateway

Features

- Protocol: PROFINET IO Device
- PROFINET Conformance Class B and RT Class 1
- Cyclic Time: 1ms (min)
- Generic GSDML File Provided (Version 2.25)
- Max length of input/output data is 512/512 Bytes
- Support Modbus Master and Slave mode
- Support Modbus RTU and ASCII format
- Support several kinds of baud rate for COM1 from 1.2 to 460.8 kbps
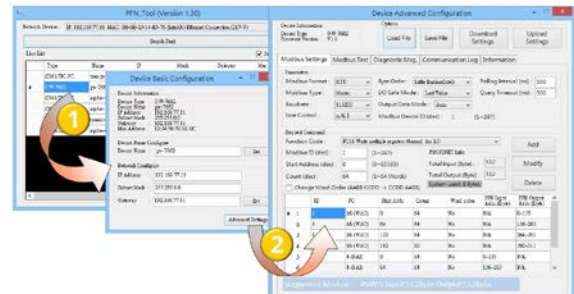- 4 kV Contact ESD protection for any terminal

Introduction

The GW-7662 specially designed for PROFINET IO device. It allows PROFINET controller to access Modbus devices. These Modbus devices maybe a PLC, a sensor, ICPDAS M-7000 series modules and so forth. We also provide a utility software for users to configure GW-7662. By using this module, users can put their Modbus devices into PROFINET network easily.
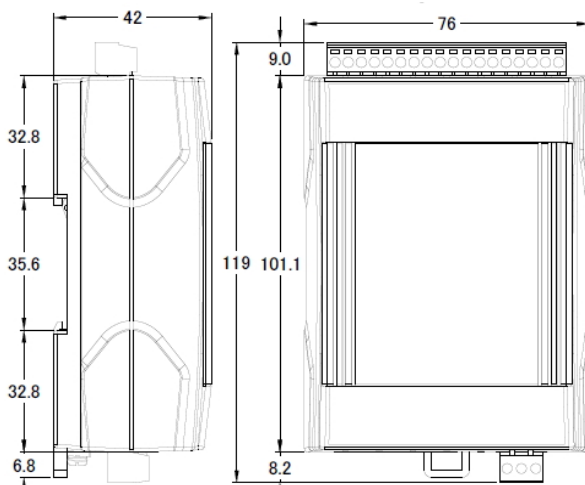
Modbus Support

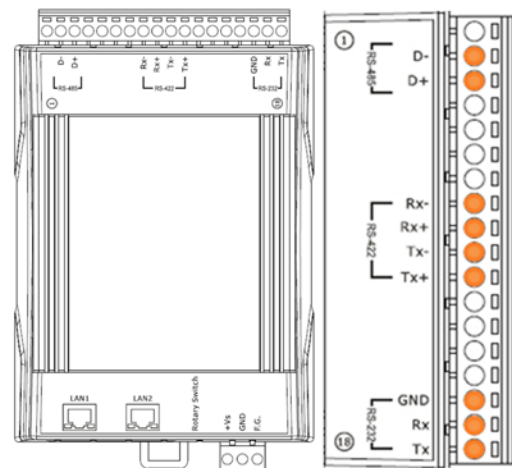| Code	Name	Description
01	Read Coil Status	Read the ON/OFF status of discrete outputs in the slave
02	Read Input Status	Read the ON/OFF status of discrete inputs in the slave
03	Read Holding Registers	Read the binary contents of holding registers in the slave
04	Read Input Registers	Read the binary contents of input registers in the slave
05	Force Single Coil	Write a single output to either ON or OFF in the slave
06	Preset Single Register	Write an integer value into a single register in the slave
15	Force Multiple Coils	Write each coil in the sequence of coils to either ON or OFF in the slave
16	Preset Multiple Registers	Write a block of contiguous registers in the slave

Utility Features

- Provide Modbus device setting
- Show diagnostic messages
- Provide Modbus test function
- Provide Communication Log of Modbus network
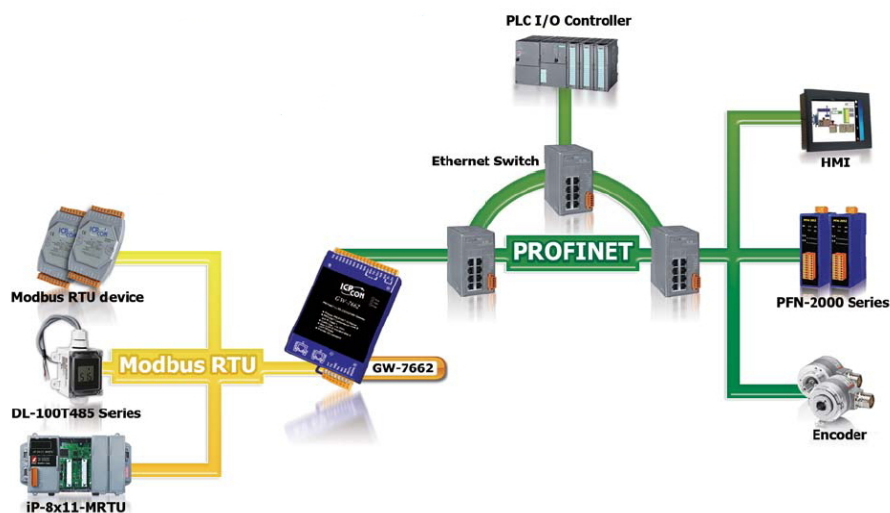

Dimensions (Units: mm)

Pin Assignments

■ Hardware Specifications

PROFINET Interface	
Protocol	PROFINET IO Device
Conformance Classes	Class B
Services	RTC, RTA, CL-RPC, DCP, LLDP, I&M
Cycle Time	1 ms (min.)

Ethernet Interface	
Controller	10/100Base-TX Ethernet Controller (Auto-negotiating, Auto_MDIX)
Connector	RJ-45 x 2 (LED indicators) , Integrated 2-Port Switch
Services	ICMP, IGMP, ARP, DHCP, TELNET, TFTP, SNMP, VLAN Priority Tagging

UART Interface	
COM	RS-232/RS-422/RS-485 (can't be used simultaneously)
COM Connector	3-pin screwed terminal block (RxD, TxD, GND) 4-pin screwed terminal block (RxD+, RxD-, TxD+, TxD-) 2-pin screwed terminal block (DATA+, DATA-)
Baud Rate (bps)	1200, 2400, 4800, 9600, 19200, 38400, 57600, 115200, 230400, 460800
Data bit	7, 8
Stop bit	1, 2
Parity	None, Even, Odd

LED	
Round LED	AP LED, BOOT LED, ERR LED

Power	
Power supply	Unregulated +10 ~ +30 V_{DC}
Protection	Power reverse polarity protection, Over-voltage brown-out protection
Power Consumption	3.4W

Mechanism	
Installation	DIN-Rail
Dimensions	42 mm x 76 mm x 119 mm (W x L x H)

Environment	
Operating Temp.	-25 ~ 75 ℃
Storage Temp.	-30 ~ 80 ℃
Humidity	10 ~ 90% RH, non-condensing

■ Application

■ Ordering Information

GW-7662 CR	PROFINET to Modbus RTU/ASCII Gateway (RoHS)