

ZMG-320 Multi-Protocol Gateway (IEC61162-450 Gateway)

Introduction

ZMG-320 Multi-Protocol Gateway is basically a NMEA-0183 serial to/from Ethernet (TCP/IP UDP) Gateway.

It is able to process all types of serial signals such Binary Data, Modbus-ASCII and Modbus-RTU.

In addition, the ZMG-320 Multi-Protocol Gateway has IEC61162-450 protocol capability, which is very useful for connection non-networked equipment to IEC61162-450 ship navigation and communication network. It also has the function of converting CAN signal to/from Serial and Ethernet.

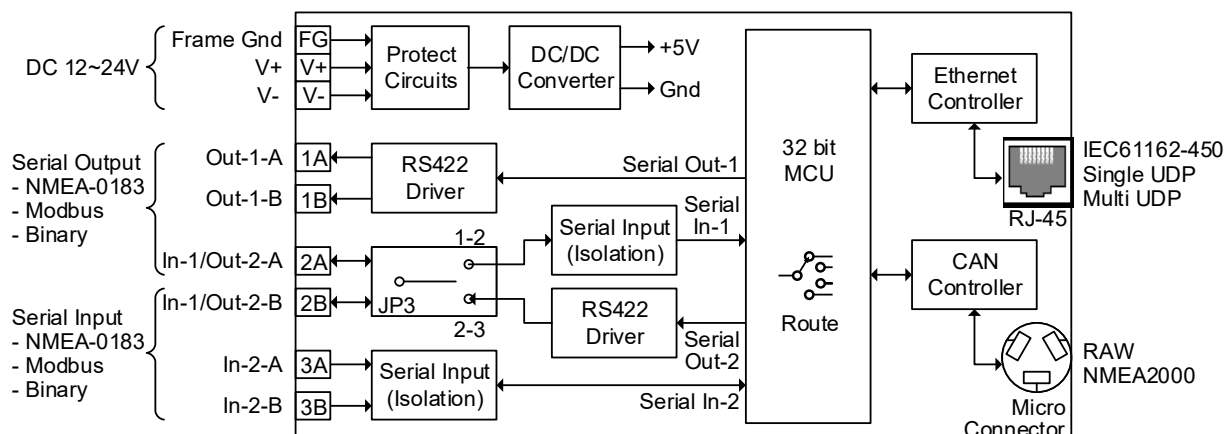
It is designed for high reliable and compliance to international standard, the firmware is easily field upgradeable and will be continuously upgraded through customer requirements monitoring.



Application

- ZMG-320
 - ✓ NMEA-0183 to/from Ethernet (TCP/IP UDP) Gateway
 - ✓ Serial (Modbus-ASCII, Modbus-RTU and General Binary data) to/from Ethernet Gateway
 - ✓ Serial to/from Serial Converter (Conversion of Baud rate, Data length, Parity and Stop bit)
 - ✓ Very high speed Tx and Rx of Serial data (Up to 230,400bps)
- ZMG-320-Pro(Professional)
 - ✓ Including all functions of ZMG-320.
 - ✓ NMEA-0183 to/from IEC61162-450 (LWE: Light Weight Ethernet) Gateway
 - ✓ CAN to/from Ethernet Gateway.
 - ✓ Serial to/from CAN Gateway

Block Diagram



■ Specifications

Serial Ports	
Tx and Rx Port	- 2 Serial Rx ports with galvanic isolation (NMEA-0183, RS-422, RS-232, TTL, Current- loop signal acceptable) - 2 Serial Tx Ports (RS-422) - Two Rx and one Tx, or one Rx and two Tx can be used at the same time.
Protocol	- NMEA-0183/HS (IEC61162-1/2), Modbus-ASCII, Modbus-RTU, Binary
Protection	- A Protection against Over voltage input (up to 36V)
Baud Rate	- 1,200bps ~ 230,400bps by each port (9 Steps)
CAN (Pro only)	
Protocol	- CAN 2.0B (NMEA-2000/IEC61162-3, SAE J1939, other CAN-based Systems) - Raw data (Does not decode PGN's and transport the CAN frames, it can be handled and decoded by receiving device)
Speed	- 250kbps, 500kbps, 1Mbps
Ethernet	
Protocol	- TCP/IP UDP Unicast and Multicast. - IEC61162-450 Light Weight Ethernet Protocol. (Pro only) - TCP/IP TCP and HTTP for System configuration
Speed	- 10/100Mbps
Display and Monitor	
Monitor	- Success packet and Error packet counter through dedicated UDP port
LED	- Operation status (Power, Input data)
Configuration	
Serial	- Baud rate, Data Length, Parity bit and Stop bit by each channel.
Network	- Source and Destination IP address and UDP Port, Single/Multi UDP Mode
Routing	- Between Serial, CAN and Ethernet (UDP) by each Channel
Input Power	
Voltage	- DC 12/24V (10~32V), Approximately 300mA at 12V
Fuse	- Electric Fuse, No Replacement Required
Physical Specifications	
Dimension	- 90 x 138 x 42mm (Including Terminal blocks)
Weight	- 0.5kg
Terminal	- Removable Screw Terminal Blocks
Option	
NTP Server	- Network Time Protocol Server

■ Remark

- 1) If you need any other specifications, please contact us.
- 2) This specification may be changed without notification.