ENAMOR PRODUCTS NMEA MODULES FAMILY
NMEA SIGNALS MULTIPLEXER SNMEA6

GENERAL FEATURES:

- **Power supply: 24VDC (18-36VDC) on demand (10-36VDC);**
- **Power consumption (max): 6W;**
- **Number of inputs: 6 RS422-ISO (RX in input, TX if output);**
- **Number of outputs: 1 RS232 and 1 RS422 - 57600Bd;**
- **Compatibility: NMEA 0183 - Standard for Interfacing Marine Electronic Devices;**
- **Baud rate: 4800, 9600, 14400, 19200, 38400, 56000, 57600, 115200 Bd;**
- **Checksum verification;**
- **Various additional special data conversion features.**

SNMEA6 data multiplexer can collect NMEA sentences received from 6 inputs at the same time (also with different baud rate) and transmit it over single output with the seleted baud rate.

SNMEA6 is receiving NMEA signal on its inputs and then the signal goes through protection circuit. Then the signal is stored in internal buffer and then resend over single output. All inputs are separated galvanic from output and among each other.

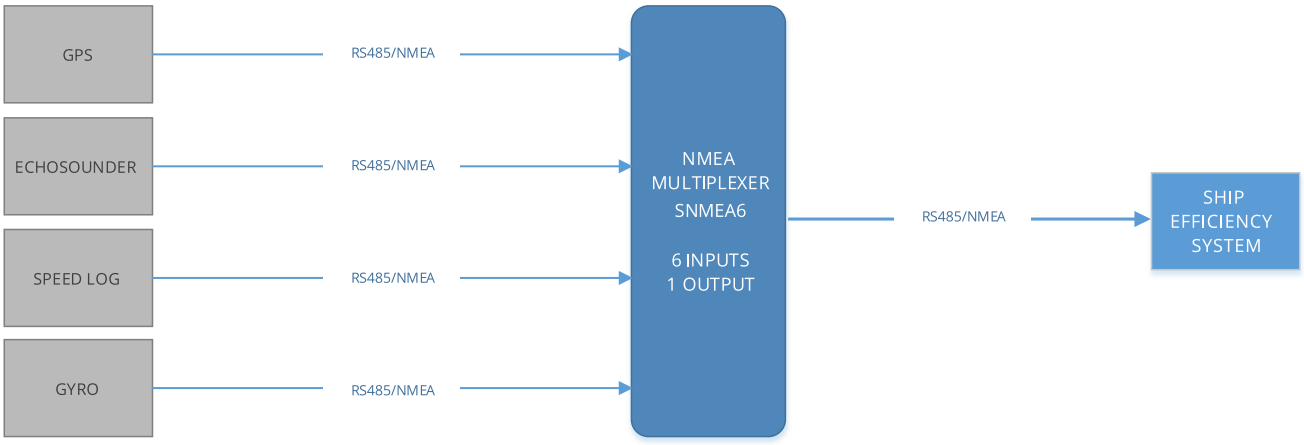
The power supply circuit is equipped with protecting fuse and overvoltage protection and reversed polarity protection. DC/DC converter is used to separate the working circuit galvanic from the power supply.

As additional feature SNMEA6 has possibility that all 6 inputs can be programmable as inputs/outputs. So because of that SNMEA6 can even work as splitter and multiplexer at the same time. Arriving protocols are buffered and then retransmitted to allow change of baud rate. Protocol is verified by check sum (if available) and if it doesn't match - rejected. The sum of baud rate of every input must be less then baud rate of output.

In SNMEA6 multiplexer all ports are designed to half duplex communication (only one way – TX or RX in one time), what causes that inputs/outputs RS422 also are described like RS485.

On special demand SNMEA6 can be programmed to filter protocols and even translate selected protocols to another protocols. In this case please contact Enamor R&D department. It is also possible to use multiplexer as standby switchover of GPS receivers with special software installed.

NMEA PRODUCTS FAMILY
SNMEA6 EXAMPLE CONNECTION DIAGRAM



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