

ZNR-214

14ch Intelligent NMEA Buffer

Introduction

ZNR-214 14ch Intelligent NMEA Buffer is a high reliable serial data buffer for relaying serial data such NMEA 0183 (IEC61162-1) received from 2 signal talkers to 14 listeners.

Basically, this is used for single 14ch NMEA buffer with automatic / manual switching, or dual 7ch NMEA buffers.

The ZNR-214 has extended functions such multiplexing 2 inputs, error sentence checking and baud rate converting. This is very useful for interfacing most shipboard navigation and communication equipment using NMEA 0183 data with each other.

It was designed for considering high reliability and in accordance with IEC61162-1, IEC60945 standard.

NMEA Buffer is also called as a splitter, a distributor, an expander and an amplifier.



Specifications

Input

NMEA 0183	<ul style="list-style-type: none"> - 2 Input Ports - Galvanic Isolation between Each 2 Input Data, Main Circuits and Input Power - Supports up to High Speed (115,200bps) - NMEA 0183 (IEC61162-1) Standard Compliance - Over Voltage Input Protection (up to $\pm 35V$)
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Output – Short circuit protection

RS422	<ul style="list-style-type: none"> - 12 Output Ports - Up to 115,200bps support - $\pm 10kV$ ESD Protection, Slew Rate Limited Transmitters for minimize EMI
RS232	<ul style="list-style-type: none"> - 2 Output Ports - Supports Up to 115,200bps

Basic Mode

Single Buffer	<ul style="list-style-type: none"> - Single 2 Inputs and 14 Outputs NMEA Buffer - One data of 2 Inputs is selected Automatically or Manually for Output - Auto Switching Time selectable (3 sec or 6 sec)
Dual Buffer	<ul style="list-style-type: none"> - Two NMEA Buffers (Divided into 2 Buffers as A and B Group) - Each NMEA Buffer has 1 Input and 7 Outputs (6 RS422 and 1 RS232)

Extended Mode - Supports both single and dual buffer including followings

Error Check	- Error Check of NMEA Sentence (Error sentence is discarded.) - Supports both Single Buffer and Dual Buffer Mode
Multiplex	- Multiplex (Combine) 2 NMEA Inputs and send them to all 14 Output Ports - Selectable NMEA Error Checking & Sentence Filtering
Limits of Extended Mode	- Supports NMEA 0183 Data only - For Binary Data, Use Basic Mode - A Group (IN 1, Out 1~7) Supports 4,800bps only - B Group (IN 2, Out 8~14) supports 4,800~19,200bps, Selectable by DIP SW
Power	
Input Voltage	- DC24V (18~32V), Approximately 0.2A - Electric Fuse, No Replacement Required
Physical Specifications	
Dimension/Weight	- 193 x 139 x 49 mm / 1.0 kg (7.6 x 5.4 x 1.9 in / 2.2 lb)
Terminal	- Screw Terminal Blocks
Option	- DC 12V and NMEA Filter are available, please contact us

Remark

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

