

14 CHANNEL DATA BUFFER

The X214-DB is a 14 channel 'Intelligent NMEA Buffer' for relaying NMEA 0183 (IEC61162-1) serial data, received from 2 signal talkers with outputs to 14 listeners.

The interface may be configured as either:

Single Buffer Mode:

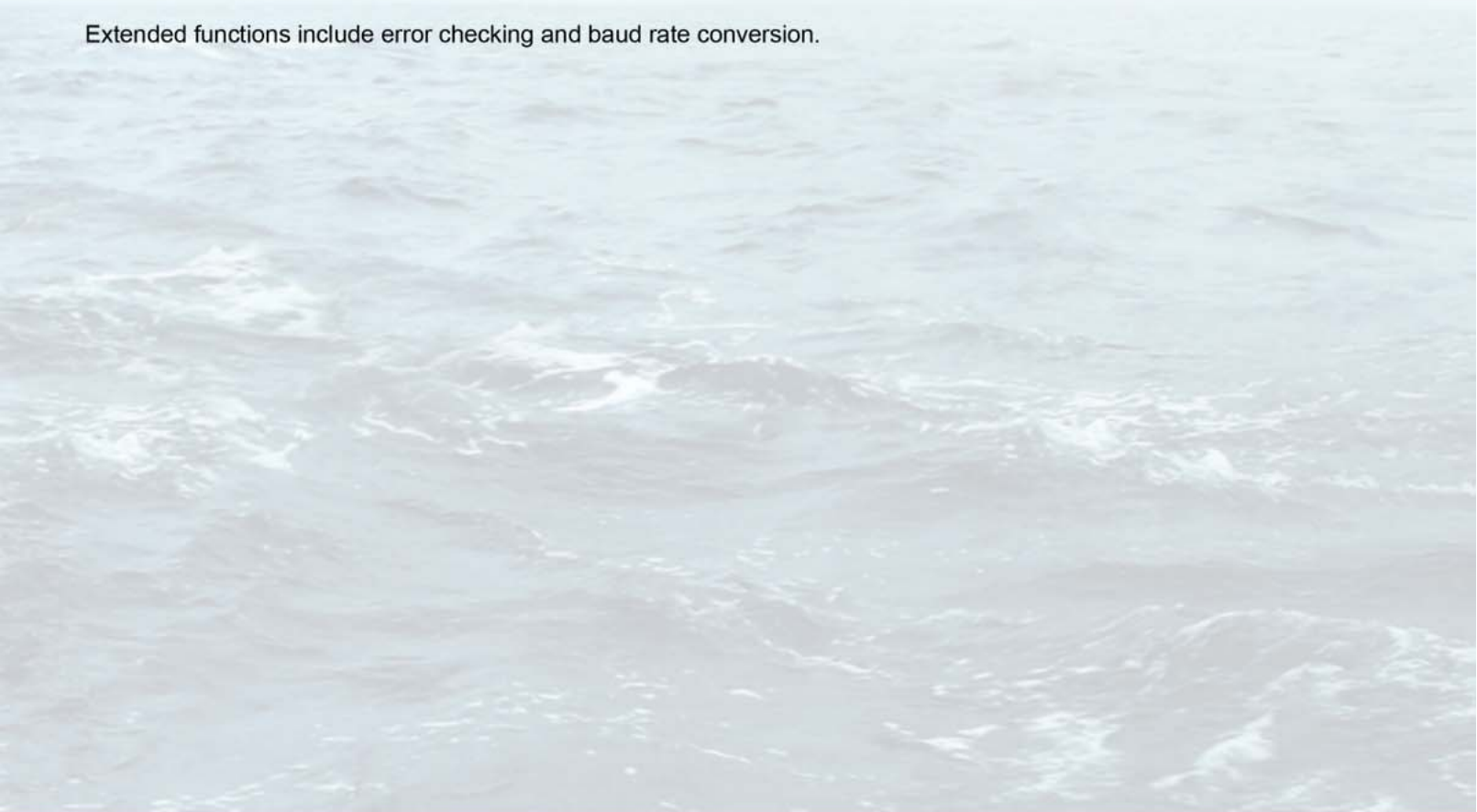
Dual input with auto / manual switching to full 14 output channels
(2x GPS for example)

Dual Buffer Mode:

Dual input with separate input to 7 output channels per input
(1x GPS and 1x Gyro for example)



Extended functions include error checking and baud rate conversion.



SPECIFICATIONS

INPUT: NMEA 0183
2x Input Ports – Isolated from ground and from each other
Supports data up to 115,200 Baud
NMEA 0183 (IEC61162-1) Standard Compliance
Over Voltage Input Protection (up to $\pm 35V$)

OUTPUT – SHORT CIRCUIT PROTECTION: RS422
12 Output Ports
Up to 115,200 Baud
 $\pm 10kV$ ESD Protection, Slew Rate Limited Transmitters for minimize EMI
RS232
2 Output Ports
Supports Up to 115,200 Baud

BASIC MODE: Single Buffer
Single 2 Inputs and 14 Outputs NMEA Buffer
Input 1 or 2 is selectable either automatically or manually to be output
Auto Switching Time selectable (3 sec or 6 sec)
Dual Buffer
2x NMEA Buffers (Buffers divided into Group A and B)
Each NMEA Buffer has 1x Input and 7x Outputs (6x RS422 and 1x RS232)

EXTENDED MODE
ERROR CHECK: Error Check of NMEA Sentence (Any data with an error is discarded.)
Supported by both Single Buffer and Dual Buffer Mode

MULTIPLEX: Combine 2x NMEA Inputs and send them to all 14 Output Ports
Selectable NMEA Error Checking and 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 4,800 Baud only
B Group (IN 2, Out 8~14) supports 4,800~19,200 Baud, selectable by DIP SW

POWER: 24Vdc (18~32V), Nominal 0.2A
Resettable Fuse on Input Line

DIMENSIONS: 193 x 139 x 49 mm 1kg