

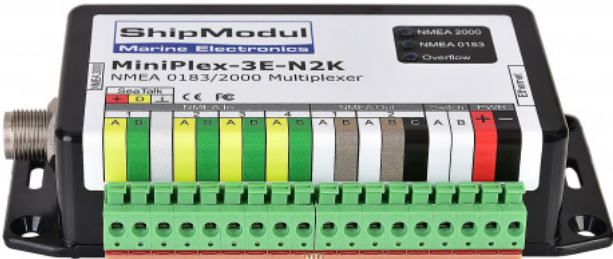
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NMEA0183 Multiplexer with Ethernet and NMEA2000 MiniPlex-3E-N2K

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Available on 13.04.2023 ⓘ

SVB price: €525.16

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Item no.	21227
EAN	8719326814261
Model no.	1136
Description	NMEA0183 Multiplexer with Ethernet and NMEA2000 MiniPlex-3E-N2K
Operating voltage	12 V, 24 V
NMEA2000 ⓘ	Yes
NMEA0183 Inputs	4
NMEA0183 Outputs	2
NMEA0183 Baud Rate	4800 - 57600 Baud
NMEA0183 ⓘ	Yes
SeaTalk 1	Yes
Ethernet / Network ⓘ	Yes
USB	No
WiFi ⓘ	No
AIS Support	Yes

SVB recommends the following for this item



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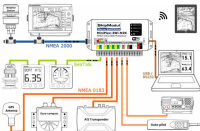
The MiniPlex-3 Series NMEA multiplexers comprises a range of advanced NMEA multiplexers which combines data from multiple navigation instruments.

Product details

The MiniPlex-3 Series NMEA multiplexers comprises a range of advanced NMEA multiplexers which combines data from multiple navigation instruments. Through an advanced filtering and routing system, this data can be sent to other navigation instruments and to computers, tablets and smartphones. A bi-directional SeaTalk1 interface enables conversion between SeaTalk1 data and NMEA 0183 sentences. This conversion works both ways, allowing the MiniPlex-3 to replace Raymarine's SeaTalk-NMEA bridge (E85001). (Currently, only conversion from SeaTalk1 to NMEA 0183 supported. Conversion from NMEA 0183 to SeaTalk1 will be available soon through a firmware update) MiniPlex-3 models with an NMEA 2000 interface (-N2K suffix) connect directly to an NMEA 2000 backbone and convert between NMEA 2000 PGN's, NMEA 0183 sentences and SeaTalk1 datagrams in all directions. All data is available on one or more computer interfaces in NMEA 0183 format. NMEA 2000 PGN's and SeaTalk datagrams for which no NMEA 0183 equivalent exists, can be converted to special NMEA 0183 sentences, allowing software developers to support processing of raw NMEA 2000 and SeaTalk data. Each and every port on a MiniPlex-3 multiplexer is galvanically isolated from the internal electronics and from every other port. This guarantees that no ground loops will be created when adding a MiniPlex-3 to a navigation network. It also ensures a trouble free connection to any type of NMEA 0183 port of any device. The MiniPlex-3 multiplexers are all functionally identical but differ in type and number of computer interfaces.

Features:

- The MiniPlex-3 Series has a rich set of features and configuration options, enabling the user to tackle almost any NMEA bottleneck or interface problem. The configuration tool MPX-Config3 allows full configuration of the multiplexer and monitoring of NMEA data passing through the multiplexer.
- NMEA routingNMEA data can be routed from any input to any output. A default route can be set as well as specific routing rules for individual NMEA sentences.
- Computer data can be routed to any NMEA output, to be merged with other NMEA data or to override this data. This enables automatic switching between computer based navigation and GPS/instrument based navigation.NMEA filteringA flexible NMEA filter can be configured to pass or block specific sentences from each input channel. This greatly reduces the chance of an overflow and the resulting loss of data. Many GPS receivers for instance, transmit an abundance of sentences every second, accounting for 85% of the available bandwidth of an NMEA 0183 port at 4800 Baud. By blocking unwanted or unnecessary sentences, bandwidth is preserved for other instruments. The filter can also be configured to reduce the rate of specific NMEA sentences.
- Magnetic to True heading conversion and vice versa
- GPS speed to Log speed and vice versa
- Reverse True heading
- Old (VWR) to new (MWV) wind sentences and vice versa
- Relative/Apparent to Theoretical/True wind
- RMC to GGA



Technical data:


Power supply	8-35 V DC, reverse polarity protected
Power consumption	Aprox. 100 mA
Computer-Interfaces	10Base-T/100Base-TX Ethernet
Supported protocols	TCP/IP and UDP, Port 10110 for NMEA 0183 Data TCP/IP, Port 10110 for Firmware-Updates TCP/IP and UDP, Port 30718 for Network-configuration ARP, ICMP and DHCP for Network management
Inputs	4 x NMEA 0183 (RS-422), galvanically isolated
Input resistance	> 1.4 kOhm
Input power	0.5mA @ 2V 3.0mA @ 5V 7.1mA @ 10V
Outputs	2 x NMEA 0183 (RS-422), galvanically isolated

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Max. output current	20mA @ > 2V
Filter list size	50 sentence types
Priority list size	50 sentence types
NMEA input speed	4800 - 57600 Baud
NMEA output speed 1	4800 - 57600 Baud
NMEA output speed 2	4800 - 115200 Baud
Dimensions	138 x 62 x 30 mm

Documents

 [Manual \(https://media1.svb-media.de/media/snr/506240/pdf/manual\\_2016-05-31\\_09-44-44\\_18cc7cd0d577c78355955756a3a678b1.pdf\)](https://media1.svb-media.de/media/snr/506240/pdf/manual_2016-05-31_09-44-44_18cc7cd0d577c78355955756a3a678b1.pdf)

PDF, 3,24 MB

2 customer reviews



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by Björn A.



6/5/2018

| Verified purchase

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In the version with Ethernet, I always had disconnections. So I have installed the Wifi version, which runs so far completely stable. This would get 5 stars ...

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Helpful?

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0

👎

0

https://www.svb24.com/en/nmea0183-multiplexer-with-ethernet-and-nmea2000-miniplex-3e-n2k.html

3/5



by Thomas S.  | 10/2/2017

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Guter Prototyp

The support of Shipmodul is excellent. There is a quick and comprehensive answer to deep technical questions. The manual is very extensive but inadequate. I feel like I bought an early prototype. The developer explains how it works. The WLAN is still secured as usual with tests with the fixed password "MiniPlex". The configuration is not via a website, but with a quickly-clicked Windows interface. This usually lacks essential functions such as changing the WLAN password. There are countless filter options that are important not only in tests but also in productive operation for some boat owners. The functionality has been well documented, the case is simple and stable. Everything exactly as I know it in tests in good laboratories. Why this device is offered as a consumer product at SVB is beyond me. A clear identification of the state of development would be necessary. One shortcoming is that the software has aged badly. Obviously, my device has a newer firmware than the latest one on the website. So instead of at least cleaning up the external communication, the website is neglected.

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NMEA0183 Multi

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