

MiniPlex-3Wi-N2K

The MiniPlex-3Wi-N2K is an advanced multiplexer/gateway which combines NMEA 0183 data from multiple sources into one stream. Its gateway function provides conversion between NMEA 0183 and NMEA 2000 in both directions.

It also has two NMEA 0183 outputs, a USB port and a WiFi interface, and received NMEA 0183 sentences can be individually be routed to each of these outputs.

The USB port and WiFi interface are bi-directional, so they can transmit NMEA 0183 data to a connected devices and at the same time, they can receive NMEA 0183 data to be routed to one or both NMEA 0183 outputs.

Communication speeds up to 115200 baud are supported.

The WiFi interface serves as access point and client simultaneously. Thus, devices can "connect" directly to the MiniPlex-3Wi-N2K but, if desired, the MiniPlex-3Wi-N2K can also join an existing WiFi network.



SeaTalk

Input 1 can be set to SeaTalk mode, so it can transmit and receive SeaTalk data. Received SeaTalk data is converted to NMEA 0183 while NMEA 0183 data from any input, USB port or WiFi interface can be selectively routed and converted to the SeaTalk port.

All NMEA 0183 inputs, outputs and USB port are galvanically isolated, thus preventing any chance of ground loops.

A comprehensive set of features include routing/filtering of NMEA 0183 sentences, numerous conversions, prioritisation of data etc. make the MiniPlex-3Wi-N2K the ultimate solution for any interfacing requirement.

NMEA 2000 Gateway

The MiniPlex-3Wi-N2K also serves as a multiple gateway between NMEA 0183 and NMEA 2000. Each NMEA 0183 input is visible on the NMEA 2000 network as an individual Data Source, one for each physical input, conversions and Ethernet port: 6 in total.

Using the Routing Table, data from every possible NMEA 2000 source can be routed to the USB port, WiFi interface and/or both NMEA 0183 outputs.

MiniPlex-3Wi-N2K Technical specifications

Supply voltage:	8-35 V _{DC} , protected against reversed polarity	Max output current:	20 mA @ > 2 V
Current consumption:	70 mA (120 mA max. with fully loaded talker ports)	Routing table size:	50 sentence types
Host interface:	USB, galvanically isolated Internal speed: 460800 baud WiFi, 802.11 b/g/n at 2.4 GHz	Priority table size:	50 sentence types
Supported protocols:	TCP and UDP, port 10110 for NMEA communication ARP, ICMP and DHCP for network management	Speed NMEA 0183 inputs:	4800 - 115200 baud
Inputs:	4 x NMEA 0183/RS422, galvanically isolated In 1 can be set to SeaTalk mode	Speed NMEA 0183 Outputs:	4800 - 115200 baud
Input resistance:	> 1.4 kOhm	Indicators:	Overflow, Data and WiFi
Input current:	0.5 mA @ 2 V 3.0 mA @ 5 V 7.1 mA @ 10 V	Housing:	Flame retardant ABS
Outputs:	2 x NMEA 0183/RS422, galvanically isolated Out 2 can be switched to RS485/Modbus-RTU	Dimensions:	138 x 62 x 30 mm
NMEA 2000			
		Manufacturer Code:	595
		Product Code:	24180
		LEN:	1
		Connector:	M12 male Micro-C