# USB/Serial Gateway

The SeaSmart.net line of marine adapters convert NMEA 2000 data into common interfaces such as Serial, USB, Ethernet, and WiFi making it possible to access vessel data on alternate network interfaces.

The SeaSmart.net Serial/USB Gateway translates NMEA 2000 bus data to USB or Serial (RS232) format for use by PC/Laptop Applications or the SeaGauge family of color marine displays.

The multi-function weather-resist data port auto switches from Serial mode to USB mode when plugged into a compatible PC/Laptop and is electrically isolated from the NMEA 2000 bus. Serial mode allows legacy NMEA 0183 equipment an upgrade path to NMEA 2000 using the SeaSmart.net Protocol while USB mode provides an isolated protective interface to PCs running marine instrumentation and chart plotting applications

The SeaSmart.net Serial/USB adapter is primarily designed for use with the SeaGauge line of color marine displays and provides a direct connection to the NMEA 2000 bus. The adapter can be configured to select from a large variety of NMEA 2000 PGNs and construct multiple virtual display pages (up to 8) with user specified labels and dial graphic options. Supplied PC software allows for simple selection of vessel parameters such as engine data, fuel tanks, battery status, navigation, and weather information – all of which can be arranged on virtual displays

The SeaSmart.net Protocol is Open Published to allow a growing list of third party PC applications for chart plotting, weather, vessel instrumentation, and more. The adapter handles all of the bus interface and translation to greatly simplify new application development for NMEA 2000 data sources.

All SeaSmart.net adapters are NMEA 2000 Certified to meet rigid standards that ensure reliable interoperation among all participating manufactures and products. Certification guarantees SeaSmart.net will not affect bus operation and follows strict electrical and power isolation standards.

Other SeaSmart.net adapters are available for NMEA 2000 interface to Ethernet and WiFi with embedded Web Servers for Browser based viewing of all vessel information via internet connections.

| Model Number | SSN2K-01 | SSENET-02 | SSWiFi-03 | SSTCP-04 |
|---|---|---|---|---|
| Interface | Serial/USB | Ethernet | WiFi | ENet/WiFi |
| PGN List Size (RX/TX)<br>• User configurable<br>• Bus Analyzer S/W for PC<br>• Receive All Mode | 32/28 | 32/28 | 32/28 | 32/28 |
| NMEA 2000 Protocol Supported<br>• SeaSmart.net<br>• Actisense NGT | ☑ | ☑ | ☑ | ☑ |
| NMEA 0183/AIS supported | | ☑ | ☑ | ☑ |
| Maximum Baud Rate | 57600 | 230400 | 115200 | 115200 |
| Serial Port (RS232)/USB Port<br>• Supplied weather-resist USB - 2m<br>• Twist-Lock connector<br>• Supplied PC Instrumentation S/W for live view | ☑ | ☑ | ☑ | ☑ |
| Aux Serial Port (RS232)NMEA 0183/AIS | | ☑ | ☑ | ☑ |
| NMEA 2000 Port<br>• Supplied DeviceNet drop cable -1m | ☑ | ☑ | ☑ | ☑ |
| Ethernet Port<br>• Supplied weather-resist RJ45 patch cable-3m<br>• Twist-lock connector | | ☑ | ☑ | ☑ |
| WiFi Port (802.11 b/g) 2.48 GHz<br>• Supplied 6" di-pole<br>• Optional remote Antenna | | | ☑ | ☑ |
| Embedded Web Server<br>• Included Web Pages for live view | | ☑ | ☑ | ☑ |
| Remote Access via Internet | | | ☑ | ☑ |
| Power Supply<br>Supply Current | 9V-32V DC<br>600 mA | 9V-32V DC<br>800 mA | 9V-32V DC<br>800 mA | 9V-32V DC<br>850 mA |
| Enclosure Material<br>Dimensions | Plastic<br>4"x2"x2" | Plastic<br>4"x2"x2" | Plastic<br>4"x2"x2" | Plastic<br>4"x2"x2" |