



Product Introduction

SeaTalk1 to NMEA Interface

SeaTalk1 to USB Interface

SeaTalk 1 to NMEA Interface

Part Number: ZDIGSTN

UPC:081159830700

SRP \$199.95

SeaTalk 1 to USB Interface

Part Number: ZDIGSTNUSB

UPC: 081159830809

SRP \$199.95

Introduction



Please note: SeaTalk is a registered trade mark of Raymarine UK

Dear Partner

The SeaTalk™ interface, originally developed by Autohelm in the early 1990s, was included on most Autohelm and Raymarine products up until about 2012. As a result there are thousands and thousands of boats around the world that have a SeaTalk1 network and may want to get data into an open, NMEA format for use with iPads, tablets and PCs or to add standard NMEA sensors to a SeaTalk system. Although some instruments/MFDs/autopilots have an NMEA 0183 interface, they do not always convert all of the data or are difficult to access.

Digital Yacht's SeaTalk to NMEA (ISO) Converter is a small but powerful interface that provides bi-directional conversion between a SeaTalk network and an NMEA 0183 network or device. Taking its power from the SeaTalk network, the ST-NMEA Converter features a full, multi-transistor SeaTalk 1 interface, an opto-isolated NMEA 0183 input and differential NMEA 0183 output that allows key navigational data to be reliably shared between the SeaTalk and NMEA0183 networks.

For developers and advanced users that want to access the raw SeaTalk data, the ST-NMEA converter can also be configured to work in a special "raw data" mode (\$STALK) which is gaining support in some Open Source projects.

The ST-NMEA (ISO) Converter is ideal for connection to one of Digital Yacht's wireless NMEA servers, allowing SeaTalk owners to go wireless and a USB Version of the ST-NMEA Converter is also available for direct connection to a PC, Mac or even a Raspberry Pie embedded Linux system.

The Digital Yacht team
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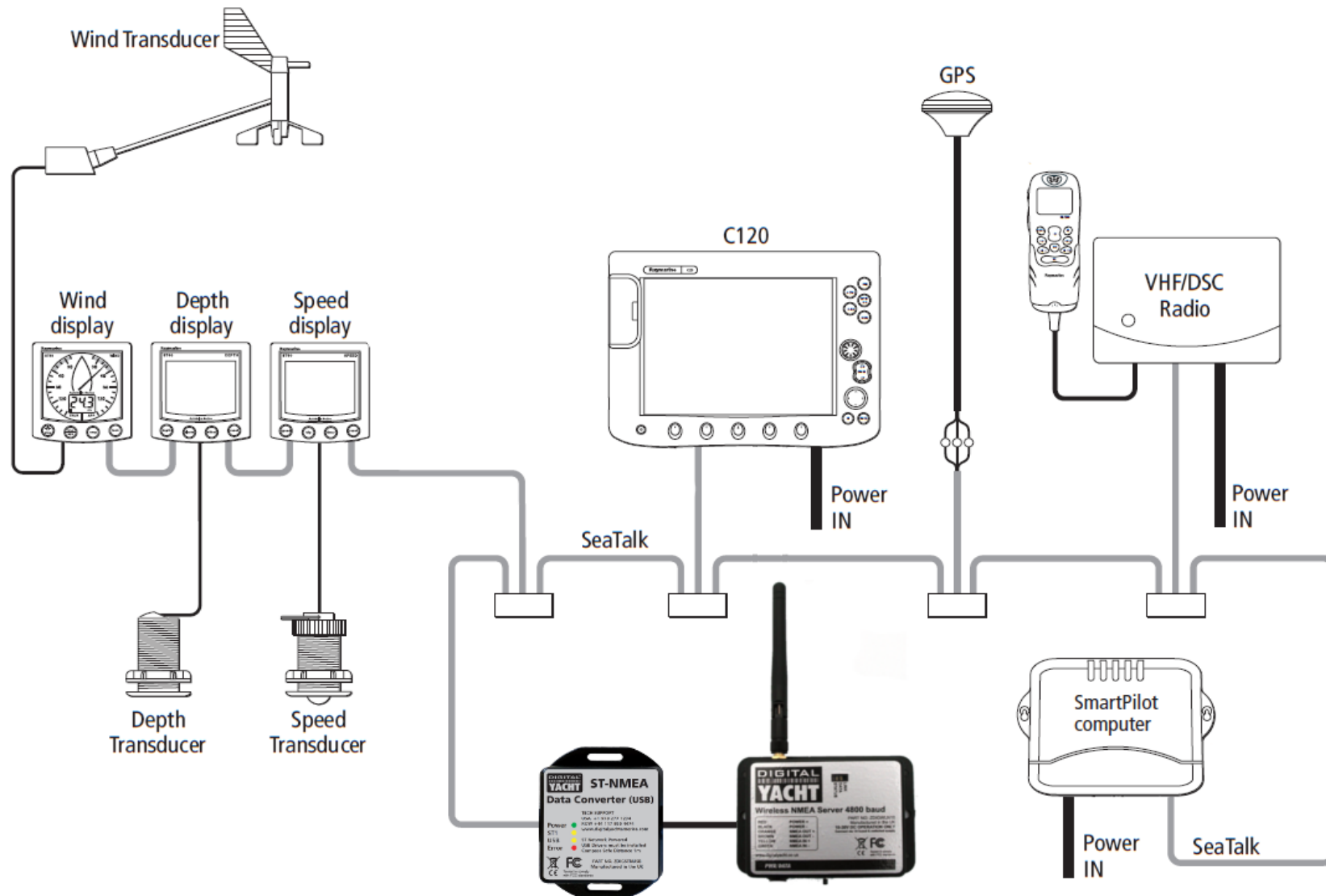
Key Features



“The ideal data converter for any legacy Autohelm or Raymarine system”

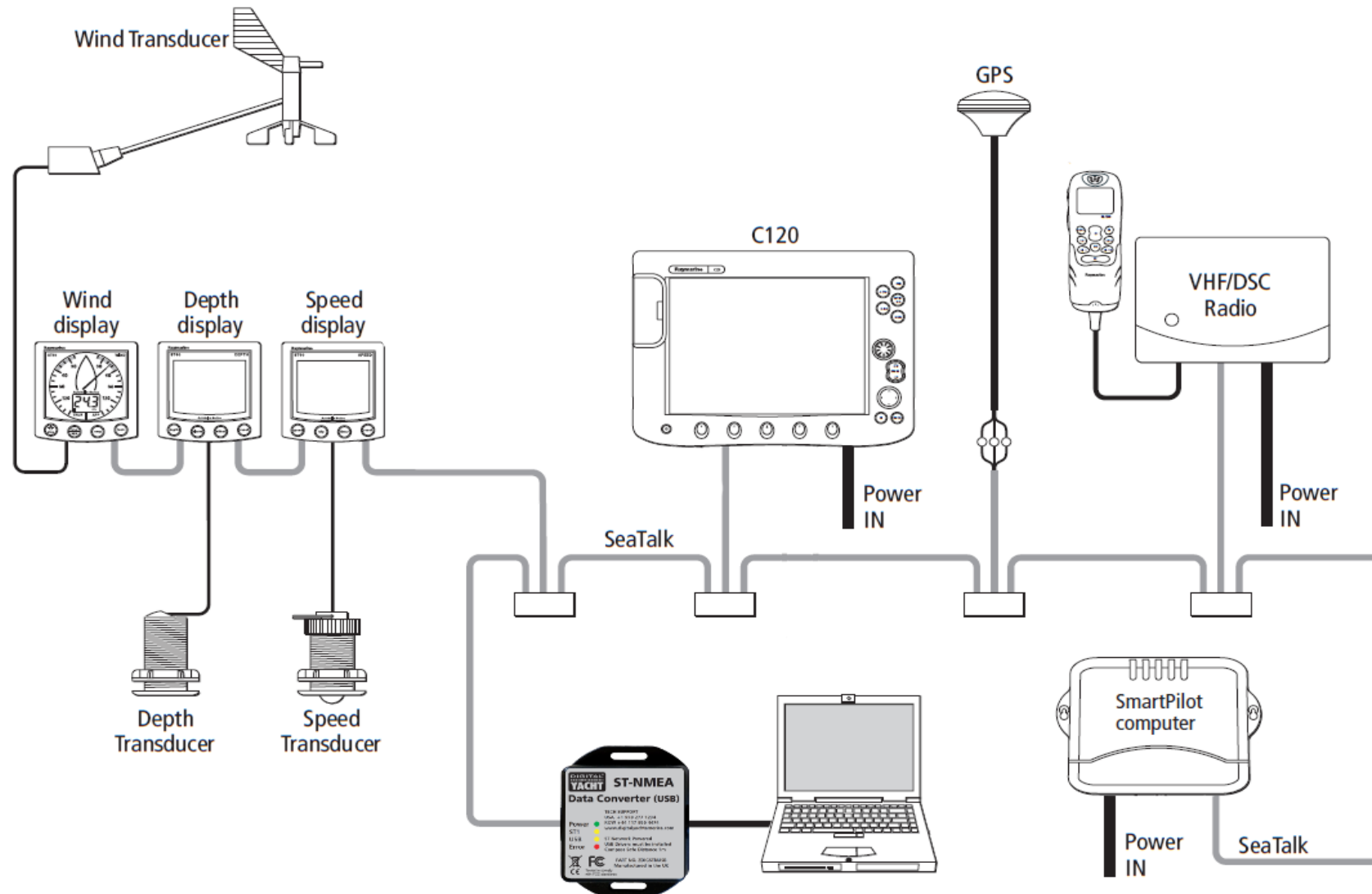
- Converts SeaTalk1 to NMEA data
- Powerful bi-directional converter – also converts NMEA to SeaTalk for use with 3rd party transducers and sensors
- Powered from the SeaTalk network – easy red, black and yellow wire colour coding
- Features reliable multi-stage transistor SeaTalk interface
- Opto-isolated NMEA0183 input and differential NMEA0183 output
- Converts all of the key navigational data
- USB version (for PC & MAC) also available
- USB variant can also be configured to operate in “Raw Data” mode (\$STALK)

NMEA Version – Typical Connections



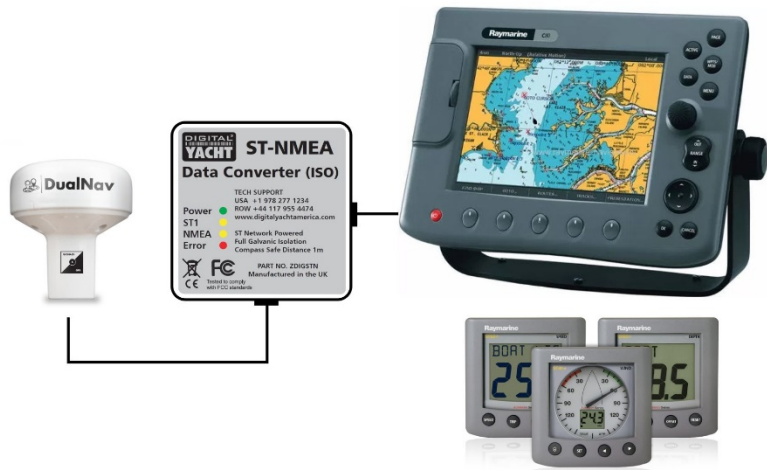
- Connects direct to SeaTalk 1 cabling using familiar red, black and yellow wiring
- Add the WLN10HS for wifi integration to iPads and tablets
- Add the WLN20 (dual input NMEA to WiFi server) for AIS and SeaTalk to wifi systems

USB Version – Typical Connections



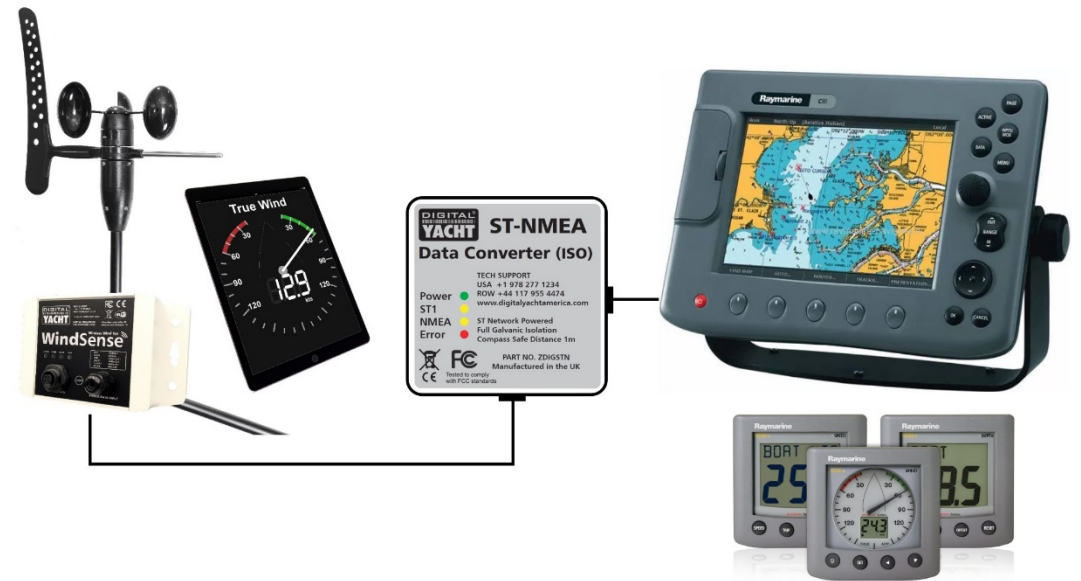
- Connects direct to SeaTalk 1 cabling using familiar red, black and yellow wiring
- Simple plug in USB connection for PC. MAC and Linux
- Also supports raw data mode for developers
- Ideal for use with nav programs

Other options



NMEA sensors like the GPS150 can connect to the ST interface and provide an output to the SeaTalk bus

WindSense can connect to a SeaTalk system providing wind information and also act as a wifi gateway for iPads and tablets from the SeaTalk bus



Tech Specs

OUTPUT (Convert from SeaTalk to ISO)

| | |
|------|-------|
| APB | 1 sec |
| DPT | 1 sec |
| HDG | 1 sec |
| MTW | 4 sec |
| MWV | 1 sec |
| RMB | 1 sec |
| RMC* | 1 sec |
| RSA | 1 sec |
| VHW | 1 sec |
| VLW | 4 sec |

INPUT (Convert from ISO to SeaTalk)

| |
|-----|
| DPT |
| HDG |
| MTW |
| MWV |
| RMC |
| VHW |

Please refer to the product manual for full details

* NOTE – Time UTC from GPS is only updated every 10 secs on the SeaTalk network

