DIGITAL YACHT

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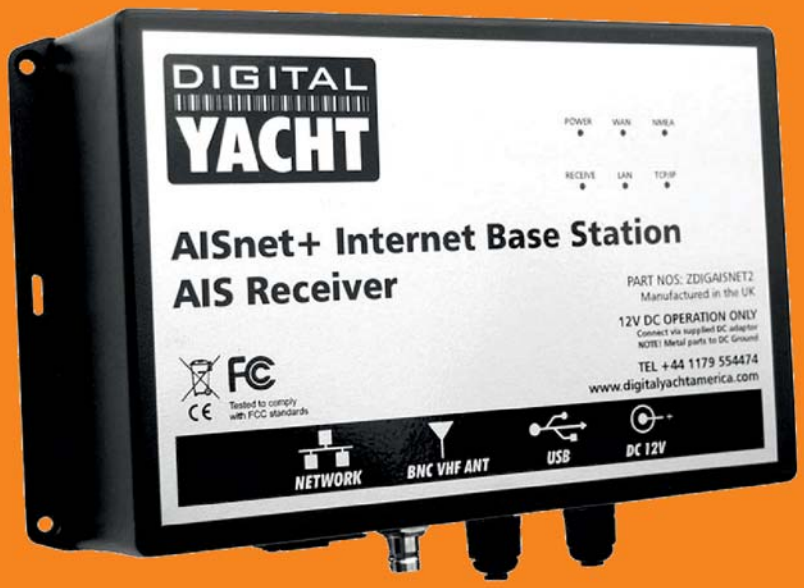
NEW! AISNet Plus

AIS Base Station with built in splitter option



AISNet+ AIS Base Station provides AIS monitoring for ports and marina offices with a new simple installation thanks to the built in ZeroLoss VHF antenna splitter allowing the unit to share an existing VHF antenna

DIGITAL UPDATE

MAY 2018

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General News

Digital Yacht looks for growth in Spain with new country manager

Digital Yacht have appointed Paula Onrubia to head up sales and marketing in Spain. She joins from a background in fintech and will be based from Digital Yacht's Bristol facility while also travelling extensively in Spain.

Digital Yacht manufacture a niche range of marine electronic products including AIS systems, sensors, wireless connectivity products for internet afloat and a wide range of networking devices to integrate tablets and PCs into boat systems. New products include the DAME award winning Nomad portable AIS transponder and 4G Connect internet on board system.

"We're keen to expand our network of Spanish dealers, boat builders and installers and I'll be available to give extensive local support" commented Paula.

She can be reached on +34 914 198 040 or check out the new website at www.digitalyacht.es

Nomad will be on display - the world's first portable Class B AIS transponder with wifi interface - great for delivery skippers or boat renters.

Australia Event

Digital Yacht will be exhibiting at Sanctuary Cove Boat Show (May 24-27) with local distributor AllSat on booth 19-20.

We'll display new products including:

- 4G Connect Internet Access Solution - fast 4G internet connectivity afloat
- SeaTalk to NMEA Gateway - great for modernising older installations
- SeaTalk to USB Gateway - ideal for interfacing SeaTalk data with PCs and MACs
- Nomad - first portable AIS transponder
- NMEA 2000 Cabling Starter Kit - get your on board electronics connected easily
- Integrate the popular Navionics app with AIS from Digital Yacht - find our how at the show

See you there!

Provides AIS monitoring for ports and marina offices with simplified installation thanks to built in antenna splitter

Many ports and maritime offices want the benefit of a local AIS feed to see shipping activity, ETAs and movements. Digital Yacht's AISNet+ AIS base station is a low cost AIS receiver designed for just this application with a network port for connecting to local computer networks or to the internet for relaying of local signals to services like Marine Traffic and other internet based AIS monitoring solutions.

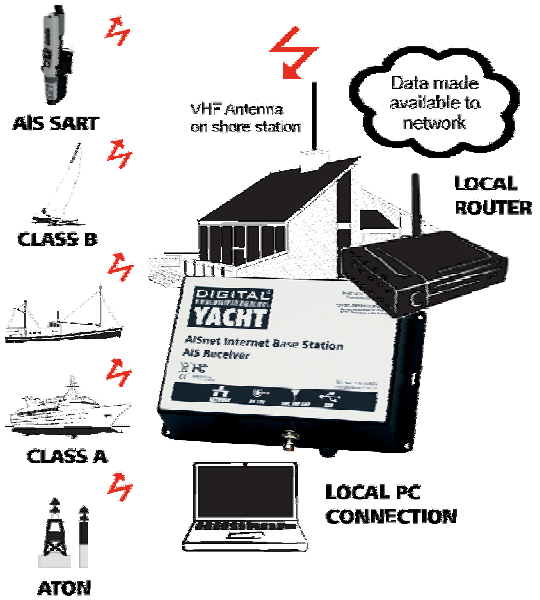
It also has a USB connection for a simple plug 'n play connection to a local computer and ships with viewing software for Windows. The system also integrates well with popular coastal surveillance software such as MaxSea/Time Zero and will overlay AIS information onto their charting and radar overlays.

There are now a large number of internet based web sites, which offer a view of AIS equipped vessels on a background chart allowing users to check the position and identity of ships and yachts. If your home/office is close to the coast you can also contribute your data to one of these sites, simply register with the company and they will give you an IP address and port number.

AISNet+ has a built in patented ZeroLoss VHF-AIS antenna splitter allowing an existing VHF antenna that may be installed on the building to be used for the AIS as well as VHF – greatly easing installation without the need to fit a 2nd antenna. Most ports and harbours will already have a VHF radio installation so this greatly simplifies the addition of AIS.

The sophisticated receiver will also decode specialist AIS targets such as ATONs and SARTs so can also be used for lone worker safety applications around ports using personal MOB AIS alarms. There is also the option of a version with VPN connectivity for encrypted transmissions for military applications.

AISnet is supplied with a universal UK/Euro/US mains adaptor that provides a regulated 12v supply from 240v/110v AC mains.



FEATURES

- AIS base station for home or office use
- Built in patented ZeroLoss VHF antenna splitter
- Integrated ethernet network controller for supplying AIS data to online AIS websites
- High performance dual channel AIS receiver
- Simple configuration via free setup program
- USB Interface for simple plug and play connection to a local PC
- Universal Mains power supply included
- Simple "fit and forget" black box solution

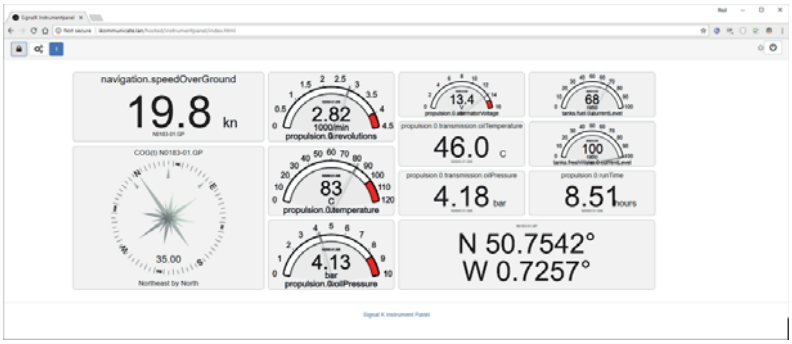
iKommunicate + EMU 1 Monitoring

With many new marine engines now having integrated Engine Management Units outputting NMEA2000 or J1939 data, it is easy to forget that the vast majority of inboard marine engines have no digital engine monitoring, just the traditional analogue engine gauges.

With your boat's engine probably being the most expensive and complex piece of equipment onboard, engine monitoring is understandably high on most boat owner's priority list. Good news then when UK manufacturer Actisense released their EMU-1 engine gateway that could connect up to your engine's analogue senders and create NMEA2000 digital data for display on compatible Multi-Function Displays (MFDs) or PCs.

Now Digital Yacht's iKommunicate gateway can take the EMU-1 engine data and display it on an app for your Apple/Android device or even as a web app in your browser. Together the EMU-1 and iKommunicate make engine monitoring on older engines a real possibility, without having to spend lots of money on an expensive MFD. Straight out of the box, the Signal K Instrument Panel App that we include on the iKommunicate SD Card, can be used to display the engine data from the EMU-1, as shown below. Alternatively you can use our free OutboardView App for Android devices (see screen shot below) or for Apple iOS devices either NMEA Remote from Zapf Software or WilhelmSK from Scott Bender will both display engine data from the EMU-1 and iKommunicate.

Instrument Panel
Included in iKommunicate



OutBoardView
Android app

Installation is best performed by an experienced marine electronics dealer/installer and will require the engine's wiring diagram or a knowledge of marine engines, but it is not beyond anyone with a technical/engineering background.

The EMU-1 should be installed close to the engine, using the same supply voltage feed that goes to the engine senders. Once connection to the engine senders is made, a single NMEA2000 drop cable links the EMU-1 to the NMEA2000 backbone. iKommunicate, with its integral drop cable, can join the backbone at any suitable location throughout the boat and will need to be wired to the boat's wireless network using a normal RJ45 Ethernet cable.

Once iKommunicate transfers the engine data to the boat's wireless network, any wireless device can display it, either using one of the aforementioned apps or its internet browser. The EMU-1 has six analogue inputs, two tacho inputs and four alarm inputs, so can be used for single or dual engine installations and iKommunicate will automatically detect the number of engines and apply the suitable data conversions.

iKommunicate - with Alexa integration!

"Alexa - Ask iKommunicate my boat location?"

Alexa, Amazon's speaking asistant has now found her way on board. She does of course need internet access but the combination of Digital Yacht's iKommunicate plus the 4G Connect internet afloat solution make this easy to implement

Last month we announced the winner of our Code Afloat competition - designed to find the best new ideas for iKommunicate interfacing on board. Congratulations go to Steve Bennett with his Alexa application

You can now access your boat information such as position, wind, speed and depth via voice while on board or at home via this Alexa skill. To access your own boat's information with this skill, you will need a Digital Yacht iKommunicate plus 4G Connect connected to the NMEA instruments on board and a unique device ID which Digital Yacht can setup.

You can try out the skill using our test boat **Sarita** sailing in the English Channel.

"Alexa, ask iKommunicate for my position"
Response: "Sarita, is travelling North East at 6 Knots in the English channel currently 5 miles south west of Plymouth"

"Alexa, ask iKommunicate the depth"
Response:" Sarita, depth below transducer is 3 meters"

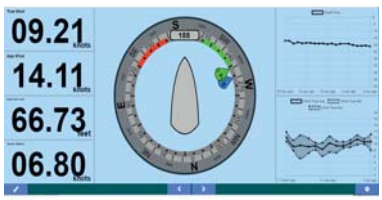
"Alexa, ask iKommunicate the wind"
Response: "Sarita, apparent wind force 4, 16 Knots, angle 26 degrees."

"Alexa, ask iKommunicate my exact position"
Response: "Sarita, Latitude 52 degrees 1 minute North, Longitude 1 degree 52 minutes West"

Check your boat is still in the marina! Let friends at home check on your position. Please contact support@digitalyacht.co.uk to obtain an Alexa device id for your own iKommunicate gateway device.

Congratulations to Steve Bennett Winner of the Code AFloat competition

And the Runner Up



2nd prize was awarded to Thomas St Pierre in Canada for his "KIP" app as a MFD alternative on your smart device browser

The judges liked the well thought out and easy to setup web app, that combined clear modern displays with info graphics showing trends and history. This was Thomas' first Javascript marine app and he has fully embraced the Signal K ethos and made all of the code open source.

Legacy SeaTalk Gateway (USB or NMEA)

The ideal data converter for any legacy Autohelm or Raymarine system

The SeaTalk™ interface, originally developed by Autohelm in the early 1990s, was included on most Autohelm and Raymarine products up until about 2012.

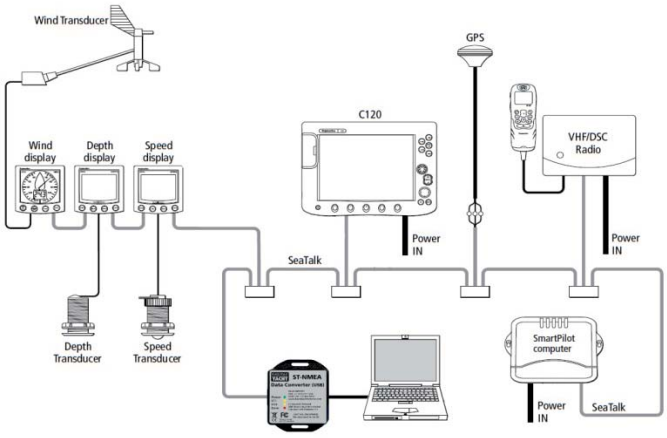
As a result there are thousands and thousands of boats around the world that have a SeaTalk1 network and may want to get data into an open, NMEA format for use with iPads, tablets and PCs or to add standard NMEA sensors to a SeaTalk system.

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 bidirectional 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.

USB version
Typical connections



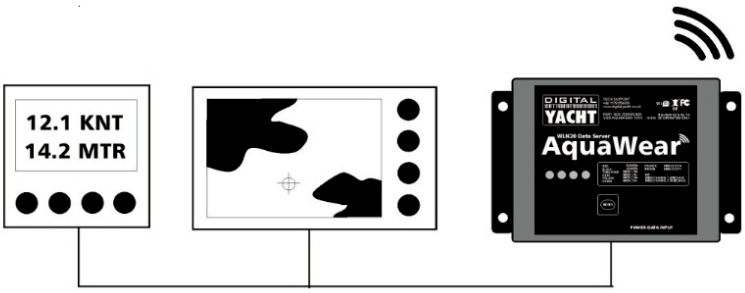
NMEA sensors can connect to the converter and provide an output to the SeaTalk bus

Tablet Navigation now more affordable with price reductions on Digital Yacht NMEA to WiFi servers

Following the introduction of our new iAIS app with popular Navionics charting available as an option, we're pleased to announce two special offers on our NMEA to WiFi servers effective until 31st May 2018.

These devices connect to a boat's NMEA network and send data wirelessly to smart phones, iPads and tablets for use with 100s of compatible apps such as NavLink, NMEA Remote, iAIS, iNavX, Imray, TimeZero, iRegatta, iSailor and many more.

The WLN10 features a single NMEA 0183 input (configurable for 4800 or 38400 baud) and the WLN20 features dual inputs for more sophisticated interfacing with AIS and instrument systems. Refer to local website for offer pricing.



Technology Refresh - AIS SARTs

An AIS SART (Search And Rescue Transmitter) is a homing beacon designed for use in an emergency. When activated an AIS SART transmits its GPS position using AIS in a special SART message. This message is recognised by the AIS systems on other vessels (and potentially on shore) as an emergency message and generates an alarm. An AIS SART can be used to locate a life raft or lifeboat in an emergency situation. Available in vessel versions (SART) or personal versions (PLB) with the difference being size and range. These devices transmit at up to 2W power using RATDMA access protocol.

An AIS SART with its position close to the waterline and limited 2W output would typically have a maximum range of 5-6NM. A PLB device would typically have a range of 2-3NM. Digital Yacht only manufacture a type approved AIS SART called the S1000 – not personal AIS SARTS that can be fixed to lifejackets – these are popular because of their compact size but are a personal device and have limited range.

A dedicated SART like the S1000 is approved by the IMO as a replacement for a traditional radar type SART and offers the benefit of positive identification, lower cost and longer battery life. It's essential kit for the grab bag! In the event of an emergency, the S1000 is activated and then the position of the emergency will be accurately relayed to all AIS equipped vessels within a radius of 5-6 Nautical Miles. The other good news for Digital Yacht customers, is that all Digital Yacht AIS units are compatible with the special AIS SART messages. What's more, we have also developed a product called AIS Life Guard that is a low cost, low power, stand alone AIS SART Alarm.

So if your chart plotter is one of the many older systems that does not handle AIS SARTs very well, our new AIS Life Guard product will patiently monitor the NMEA 0183 output of an AIS receiver or transponder and immediately sound a 95dB internal alarm and/or drive an additional external alarm to make sure everyone on board is alerted to a SART alert situation – either a personal SART or full function SART like the S1000. With a power consumption of less than 0.05A, you can leave the AIS Life Guard permanently on monitoring the AIS messages but consuming much less power than a chart plotter. Should an emergency occur, Life Guard will sound the alarm, so you can fire up the chart plotter and locate the AIS SART on the screen.

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