AIT2000

Class B AIS transponder

Our latest generation of Class B AIS transponder with multiple outputs to suit every interfacing arrangement and optional wireless integration for tablets and iPads too. The AIT2000 offers superb performance, excellent reliability and quality as well as a competitive price tag.

Wake up your plotter today with the AIT2000!

DIGITAL UPDATE
APRIL 2014

In this issue

"DualNav technology offers unprecedented positioning accuracy with GPS and GLONASS compatibility and 10Hz super-fast NMEA position updates"
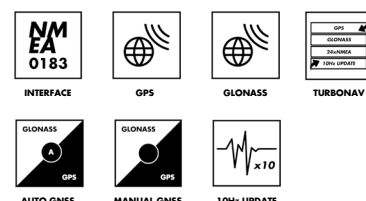
DualNav

The GPS150 DualNav™ positioning sensor combines a super accurate 50 channel GPS with GLONASS, the Russian funded satellite positioning system that is now on line and providing an excellent back up or alternative to GPS. This "smart" sensor will automatically switch between the systems or the user can manually select the most appropriate for their activity. In DualNav mode, a sophisticated algorithm combines GPS and GLONASS data to offer sub 1m accuracy. The GPS150 will also be able to utilise the European funded Galileo positioning system when it comes on line (IOC Initial Operation Capability in 2018).
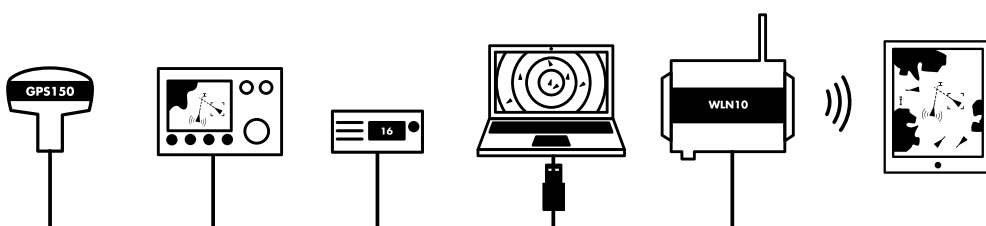
The implementation of GLONASS as an additional satellite positioning system is probably the biggest step change in maritime navigation since GPS was fully augmented back in the mid 90's. Digital Yacht's GPS150 utilises the industry standard NMEA data format allowing older chart plotters as well as current generation products to take advantage of this new technology.

The GPS150 also allows the user to select a variety of different NMEA baud rates (4800, 38400 and 115200) to allow interfacing with legacy and current systems. It also supports a new TurboNav™ mode which will appeal to racing yachtsmen and performance users where GPS/GLONASS data is output at 10Hz (10 x faster update than normal) and with an interface speed of 115200 baud which is 24 x the speed of normal NMEA data. This massively improves slow speed navigation data as well as providing the best course and speed data in a dynamic situation.

The GPS150 is a perfect positioning sensor for both legacy and current generation systems. It can even act as a DSC VHF radio positioning feed which makes sense as a standalone back up. Also available is the GPS150USB – a self-powered USB version of the GPS150 ideal for portable use or for charter skippers wanting to take advantage of PC based navigation. The GPS150USB is supplied with drivers for both PC (Windows XP, Vista, 7 and 8) and MAC.

The installer can set the characteristics of the GPS150 such as mode, NMEA data output and update rate using a series of simple internal DIP switches - no complicated software to upload.
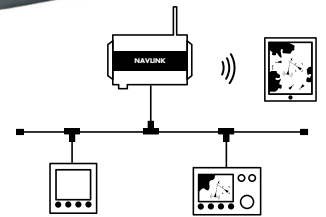
WIRELESS NMEA2000 ON OpenCPN

Slowly but surely, NMEA2000 the latest marine electronics networking standard is making its way on to boats; old and new. With most new marine electronics equipment having an NMEA2000 interface, we are seeing more and more requests for our NavLink Wireless NMEA2000 Server, that allows you to wirelessly send NMEA2000 data to phones, tablets and computers.

Although there is some initial investment required to purchase and install an NMEA2000 "Backbone" (the T-Pieces, terminator resistors and cables) once you have your basic network setup adding extra equipment is very quick and easy. Just today we had a customer who phoned us concerned about how to install a new AIT2000 Class B Transponder and one of our NavLinks on to his new boat that already had an NMEA2000 network installed. The customer had never seen the "backbone" and had expected to need all sorts of tools, crimps, soldering iron, etc. He was very pleasantly surprised to discover that both units just plugged in to the network and the NavLink even took its power from the NMEA2000 bus.

It turned out that the customer was a big Apple fan and wanted to use all of the NavLink's wireless NMEA2000 data in OpenCPN running on his Mac and maybe later on to purchase a suitable app to run on his iPad. With everything connected up, it was a simple matter of scanning for wireless networks on his Mac and connecting to the NavLink. Then in OpenCPN, we got him to go to settings, select connections and click on the "Add Connection" button. Then in the connection properties section select "Network", Protocol = UDP (so that multiple devices can receive the same data), Address = 169.254.1.1 and Port = 2000. Once the connection settings were entered, it was just a case of clicking the "Apply" button and then the "OK" button to establish the data connection to the NavLink and the GPS and AIS data started to stream in from the AIT2000 AIS Class B Transponder. More information at www.digitalyacht.net

Typical system

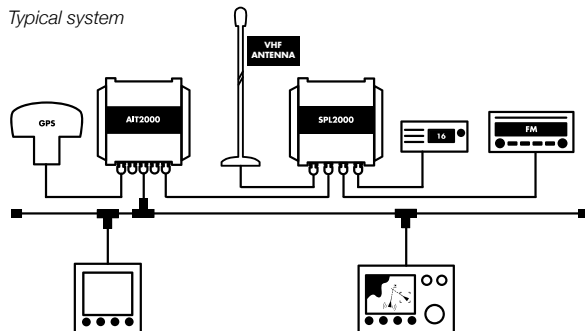## FEATURED PRODUCT — AIT 2000 CLASS B AIS TRANSPONDER

"A great value, flexible AIS transponder solution with multiple outputs to suit every installation and optional wireless solution."
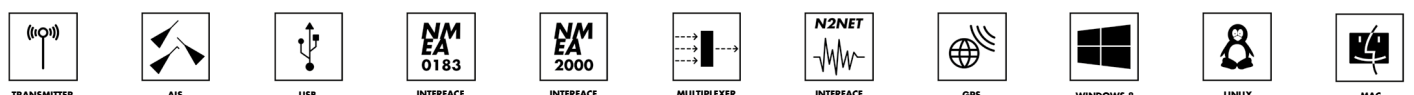
The AIT2000 uses the latest AIS Transponder technology to squeeze more performance and interfacing options in to a housing that is half the size of our previous generation transponder.

This ultra-compact Class B Transponder has three outputs; NMEA 0183,NMEA 2000 and USB connection,allowing it to work with every AIS compatible chart plotter or software package on the market today. Featuring a remote silence button option, two NMEA 0183 Inputs and Outputs, four status LEDs and rugged vibration-proof mounting brackets, the AIT2000 is the third generation of Digital Yacht AIS transponder and replaces the very popular AIT1000.

Typical system

Configuration of your vessel's fixed data, such as MMSI, call sign, boat name, dimensions etc. is made easy with the included Windows and Mac compatible proAIS2 software. Once configured, the unit will provide AIS data to a PC or Mac running suitable navigation software or a dedicated chart plotter, such as the latest Garmin, Raymarine, Navico, Standard Horizon and Furuno units. As well as transmitting your own vessel's position so that other AIS equipped vessels know where you are, the AIT2000, when connected to an existing VHF antenna (via a splitter) or dedicated Typical system AIS antenna, will receive all AIS targets within range of your boat – typically up to 30NM.

| TRANSMITTER | AIS | USB | INTERFACE | INTERFACE | MULTIPLEXER | INTERFACE | GPS | WINDOWS 8 | LINUX | MAC |

DIGITAL UPDATE APRIL 2014

Help my mouse has gone crazy!

If you have ever taken a PC onboard a boat and connected it up to a GPS via a serial or USB port then the chances are that you will probably have seen the occasional "crazy mouse" behaviour that seems to affect so many marine PCs. The cursor will suddenly start to randomly move all over the screen, opening windows and clicking on things, as if possessed by some nautical demon!

Defending Against the Heart Bleed Bug

This weekend, as I am sure many other companies did, we spent a lot of time thinking about how best to tackle the Heart Bleed bug that has shocked the internet world. For those of you who have been living in a cave for the last week, this is the bug in the OpenSSL encryption system that can give hackers a way to grab your username and password.

CPA and TCPA Alarms Explained

One of the best features of the Automatic Identification System (AIS) is the ability on some chart plotters or navigation software to set alarms that warn you if and when you will get too close to another vessel. These collision avoidance alarms are a godsend and can save you so much time and stress when navigating across a shipping lane or in bad weather.

Mounting a VHF, AIS, GPS or Wi-Fi Antenna

With so many different antennas on boats these days (VHF, GPS, AIS, TV, Wi-Fi, NavTex, etc.), knowing the best way to mount and install them can be quite bewildering. The good news is that many marine antenna manufacturers have standardised on the 1" x 14 TPI thread mount (one inch by fourteen threads per inch) first used on VHF antennas.

Permanent USB Connection to our AIT2000

Our AIT2000 transponder comes complete with a useful USB connection that allows you to quickly and easily configure the unit using our proAIS2 software. Once configured, there is no need to use the proAIS2 software again, other than perhaps to check the AIT2000 at the beginning of the season to ensure it is operating correctly.

SIGN UP FOR OUR NEWS FEED

www.digitalyacht.net

DEALER CATALOGUE

Our new 8 page short guide is available for UK, European and US markets. It gives a great overview on our 50+ product portfolio and it's also available for customisation for dealers and distributors giving them a custom Digital Yacht catalogue for marketing. Contact us today with your logo for a sample version.

Featuring a page per product category, it's easy to see how our rapidly expanding product line fits into core categories including AIS, wireless navigation, wireless internet, sensors, marine PCs and professional products from Digital Deep Sea. Our full 52 page Product Guide is also available.

DEFENDER WAREHOUSE SALE BLACK MONDAY IN MARINE RETAILING

It's always good to see some innovative marketing and the Defender warehouse sale in March is akin to a Black Monday high street sale event. Literally 10,000's customers arrive and trolleys are stacked high with marine goodies. Lines form at the check outs and shuttle buses ferry customers to the car park. It's a 4 day selling extravaganza. Digital Yacht were there with Nick Heyes from the UK and East Coast US reps Chris Harley and Don De Moss on hand showing all our latest products. AIS and wireless internet products continue to be top sellers to Defender's cruising customers. Congratulations - Great event and well organised by Defender.