



WLN10 *Smart*

NEW! NMEA to WiFi Gateway

Product Introduction

WLN10 Smart NMEA to WiFi Gateway

September 2018 Digital Yacht UK Tel + 44 1179 55 44 74

www.digitalyacht.co.uk

Part Number: ZDIGWLN10SM

UPC:081159830885

SRP £125.00 ex vat

Introduction & Market



Boaters like the idea of using an iPad, tablet or smart phone for on board navigation with their simple touch screen interface and vast range of charting and instrument apps.

Dear Partner

Digital Yacht's new WLN10 Smart NMEA to WiFi gateway takes iPad and tablet integration afloat even further with the ability to connect to existing on board GPS, AIS and instrument systems and transfer data wirelessly to an iPad or tablet – allowing compatible apps to display and compute with real time information. The WLN10 creates a secure, password protected wifi network on board to footprint the boat with data.

When connected to, for example, an AIS system, real time AIS target positions and identity data will be displayed on detailed electronic charting through compatible apps including NavLink, TimeZero, iAIS, iSailor, Seapilot and hundreds more. The tablet becomes a full function navigation display.

This new version of the WLN10 can now be programmed through its simple browser interface for NMEA 0183 data at 4800 or 38400 baud as well as allowing multiple devices to connect so you can be using a PC at the chart table with an iPad on deck. It's also bidirectional so apps can control an autopilot if this function is enabled. Next gen nav from Digital Yacht.

Product Summary

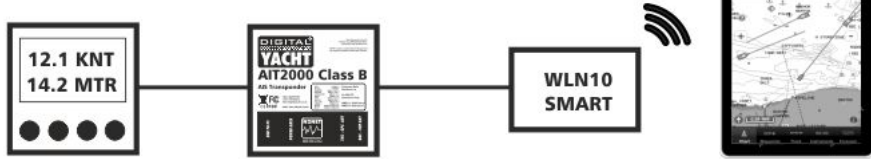


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The Digital Yacht team
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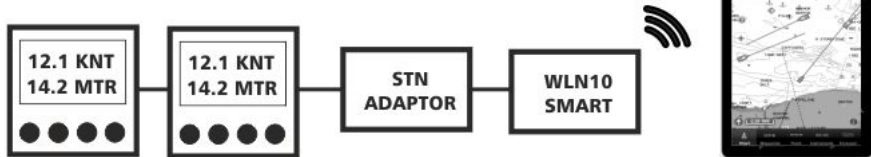
Installation

AIS Transponder Interfacing



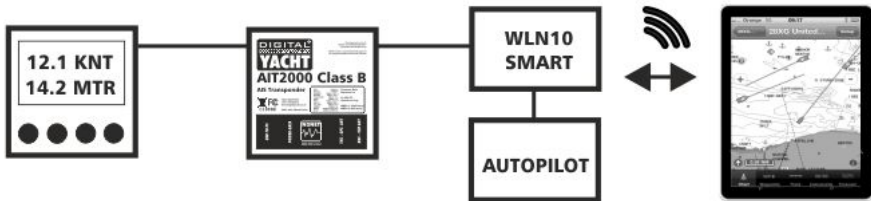
NMEA input on AIT2000 can also be used for NMEA instrument data

SeaTalk Interfacing Example



Utilise Digital Yacht SeaTalk to NMEA adaptor with WLN10 Smart

Bi directional interfacing



The WLN10 Smart supports a bi directional interface for compatible apps

Interfaced with our AIT1500 or AIT2000, the WLN10 Smart will provide wireless connectivity of AIS and GPS data. Utilise that with our NavLink charting app or iAIS app now with Navionics capability. The AIT series also have an additional NMEA data port so will multiplex an additional channel of data to the WLN10 Smart too

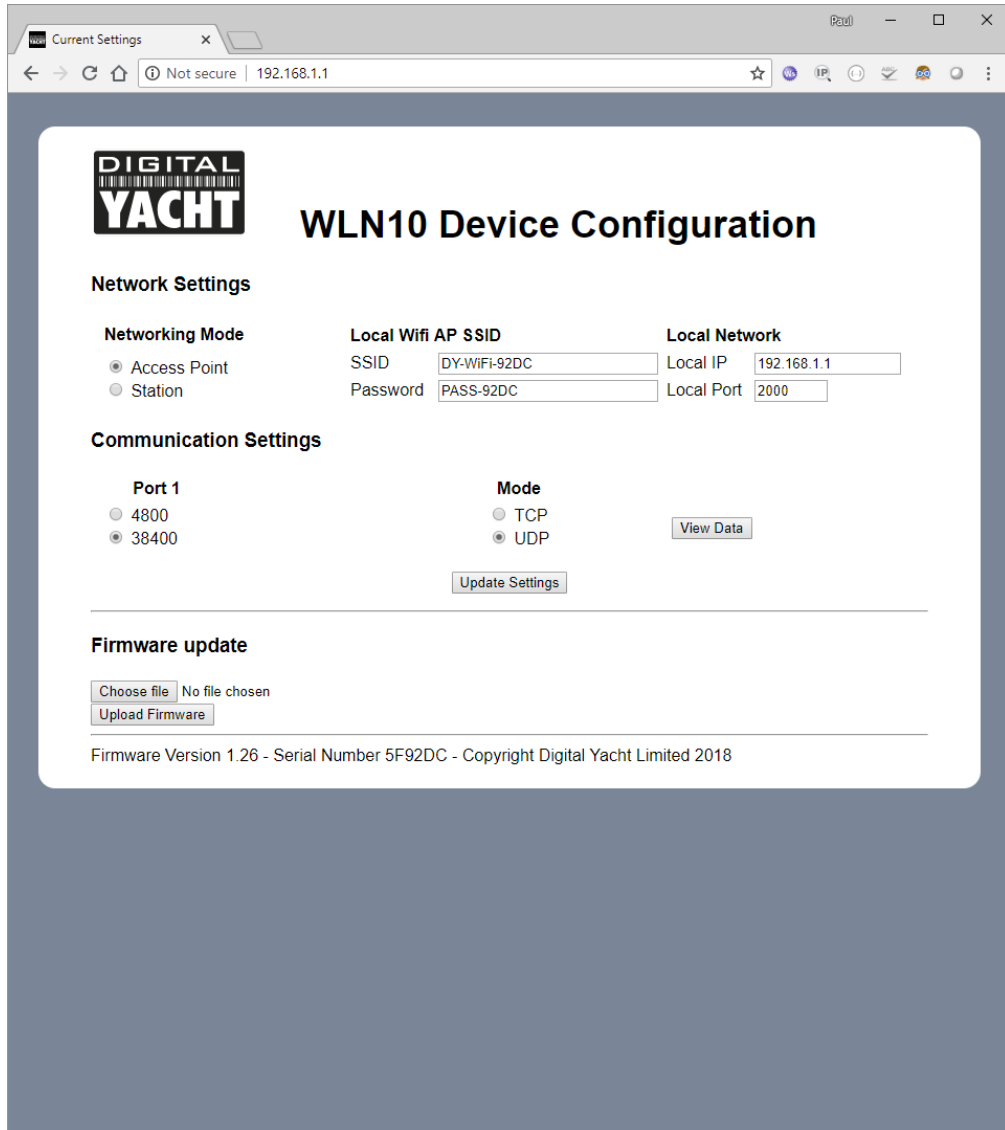
You can also utilise our SeaTalk to NMEA adaptor to allow SeaTalk instrument data to be interfaced directly to the WLN10 Smart

Apps that support a NMEA output are also supported via the bi-directional wireless interface on the WLN10 Smart



Our iAIS app is now available with a Navionics plug in allowing AIS targets to be overlaid on a Navionics chart layer

New *Smart* web interface



The screenshot shows a web browser window with the address bar displaying "192.168.1.1". The page title is "WLN10 Device Configuration" and features the Digital Yacht logo. The interface is divided into three main sections: "Network Settings", "Communication Settings", and "Firmware update".

Network Settings

- Networking Mode:** Radio buttons for "Access Point" (selected) and "Station".
- Local Wifi AP SSID:** Input fields for "SSID" (DY-WIFI-92DC) and "Password" (PASS-92DC).
- Local Network:** Input fields for "Local IP" (192.168.1.1) and "Local Port" (2000).

Communication Settings

- Port 1:** Radio buttons for "4800" and "38400" (selected).
- Mode:** Radio buttons for "TCP" and "UDP" (selected).
- A "View Data" button is located to the right of the mode selection.
- An "Update Settings" button is at the bottom of this section.

Firmware update

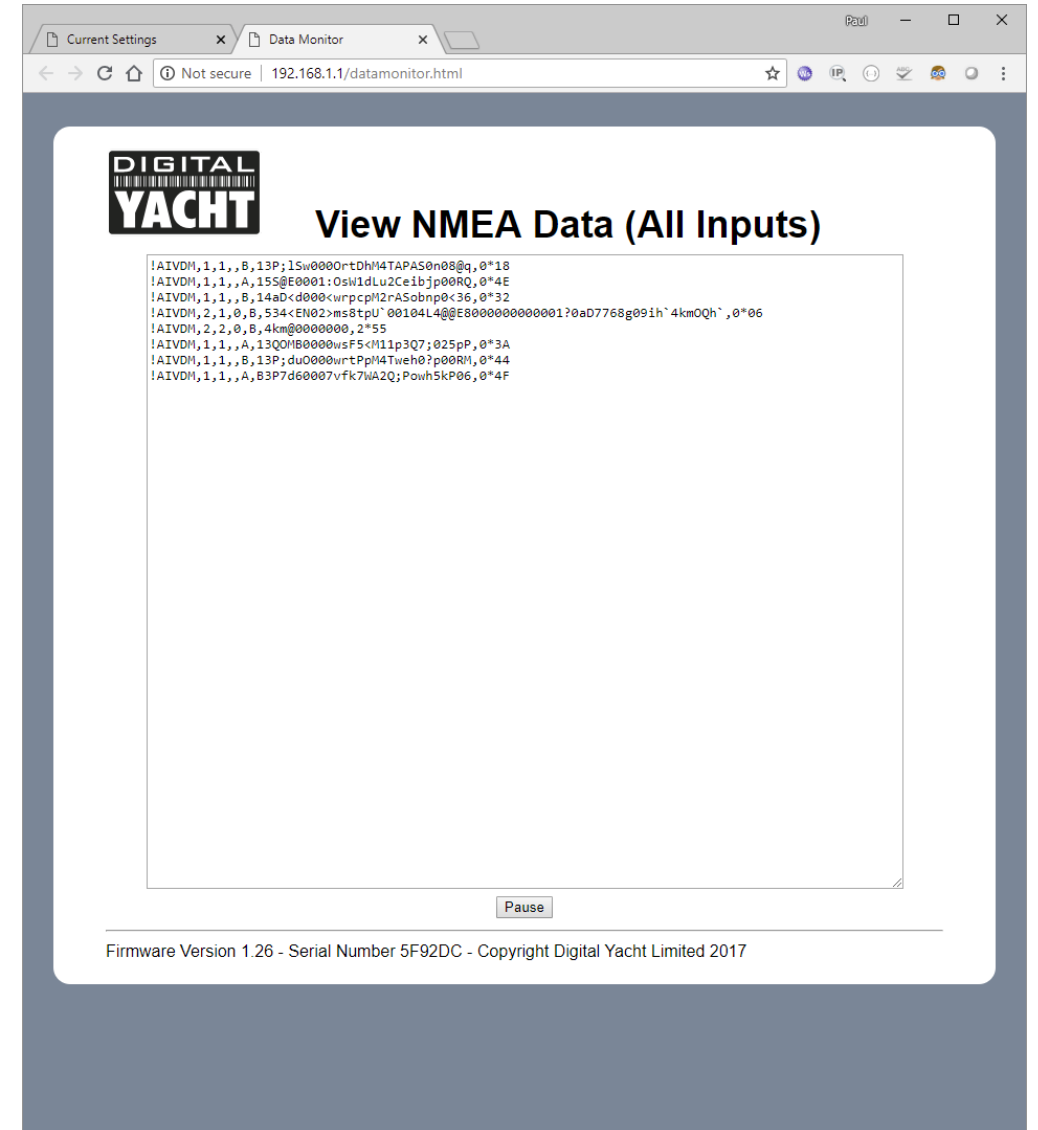
- A "Choose file" button is followed by the text "No file chosen".
- An "Upload Firmware" button is below it.
- At the bottom, it displays "Firmware Version 1.26 - Serial Number 5F92DC - Copyright Digital Yacht Limited 2018".

The new WLN10SM has a web interface for setup and initial programming:

Just logon to the IP address and you can set baud rate, SSID and password. No complicated programming!

The WLN10 Smart supports both UDP (for multiple connections) and TCP/IP interfaces for maximum compatability with apps.

You can also view NMEA data received for easy fault finding of issues.



The screenshot shows a web browser window with the address bar displaying "192.168.1.1/datamonitor.html". The page title is "View NMEA Data (All Inputs)" and features the Digital Yacht logo. The main content is a large text area displaying NMEA data received from various sensors.

```
!AIVDM,1,1,,B,13P:1Sw0000rtdH4TAPAS0n08@q,0*18
!AIVDM,1,1,,A,155@E0001:0sh1dLu2Ceibj00RQ,0*4E
!AIVDM,1,1,,B,14aD<d000<wrpcplN2rASobnp0<36,0*32
!AIVDM,2,1,0,B,534<EN02>ms8tpU'00104L4@@E800000000001?0ad7768g09ih`4km0Qh`,0*06
!AIVDM,2,2,0,B,4km@000000,2*55
!AIVDM,1,1,,A,13Q0M80000wsF5<N11p3Q7;025pP,0*3A
!AIVDM,1,1,,B,13P;du0000wrtPpM4Tweh0?p00RM,0*44
!AIVDM,1,1,,A,B3P7d60007vfk7WA2Q;Powh5kP06,0*4F
```

A "Pause" button is located at the bottom of the text area. At the bottom of the page, it displays "Firmware Version 1.26 - Serial Number 5F92DC - Copyright Digital Yacht Limited 2017".

FAQs

Do I need an internet connection to use the WLN10 Smart?

No internet connection is required. Many consumers get confused and automatically associate wifi with internet. The WLN10 Smart creates a wifi network and the local iPad or tablet users searches for this in the same way they search for a wifi hotspot. Once connected, NMEA data is sent over the local link created on board the boat.

How many devices can connect?

Up to 7 devices can connect using UDP. TCP/IP is a one to one connection format. PCs, MACs, Android and iOS are all compatible.

Where can I find compatible apps?

We keep up to date reviews on our news blog at www.digitalyacht.net – search on iOS or Android. Popular apps include iRegatta, iNavX, NMEA Remote, iAIS, NavLink, iSailor, SeaPilot, Weather 4D, MaxSea TimeZero, AIS View and literally 100s more

What is the difference between the WLN10 Smart and the old WLN10?

It's a complete new chipset with improved performance, fully opto isolated input and outputs, web interface for programming SSID, passwords and baud rate to make stocking and installing easier. It is also super competitively priced.

Are there other models in the series?

The new WLN30 will be available shortly with 3 inputs for more complex systems. Our SeaTalk to NMEA interface can also be used to offer SeaTalk connectivity and we will shortly release a NMEA 2000 adaptor

I already have a wifi router on board – can I connect the WLN10 Smart to an existing network?

Yes! You can program this through the web interface so you just have one wifi network on board with the WLN10 Smart linked directly to that as a client. This works well with Furuno WiFi radar installations

Tech Specs

Feature	
Power	<ul style="list-style-type: none">• 8-32V• Average power consumption 60mA @ 12V DC
Interface	<ul style="list-style-type: none">• WiFi – 802.11b/g/n• Support for up to 7 connected Wi-Fi devices• TCP and UDP connectivity• Internal wifi antenna
Physical	<ul style="list-style-type: none">• 10.5 x 7.2 cm• Weight 100g• Protection IPx4• Reset switch
Indicators	<ul style="list-style-type: none">• Power• WiFi• Data/Status
Compatibility	<ul style="list-style-type: none">• Wide range of free and premium apps for iOS, Android, PC & MAC• Integrate with charting, instrument and monitoring applications

Ordering information:

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TEL + 44 1179 55 44 74

Physical Dimensions

WiFi antenna is fitted internally

