



Article Number - 00023-2011

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Article applies to - WLN10, WLN10HS and Sonar Server wireless NMEA servers

ISSUE: Re-Configuring the baud rate of a WLN10 or Sonar Server

The WLN10, WLN10HS and Sonar Servers are pre-configured for operation at 4800baud, 38400baud and 4800 baud respectively. However, in some situations it may be desirable to re-configure the units to work at a different baud rate.

SOLUTION:

It is possible to re-configure these units but it involves sending the WLN10/HS/Sonar Server unit a series of commands via a terminal program. It is recommended that this is only performed by authorised Digital Yacht Dealers.

To carry out this re-configuration, it is necessary to have a Windows PC that has a wireless adaptor and a copy of "Tera Term" which is a free terminal program available for download at the link below;

http://en.sourceforge.jp/projects/ttssh2/releases/

Select the latest version to download and then install Tera Term on your Windows PC.

Using the Windows Wireless Network utility, scan for available networks and connect to the WLN10/HS/Sonar Server.

Disconnect	or connect to a	nother network	4 7
Wireless Netv	Work Connection —	Connected	Î În.
NET:	GEAR	The sett Name: DY-WLN10-5003 Signal Strength: Excellent Security Type: Unsecured to Type 10 11-0	×
Jigit	tal Yacht	SSID: DY-WLN10-5003	, llte
<u>Set up a conne</u> Open Network	ction or network and Sharing Center		

Once connected, run Tera Term and when the "New Connection" window is displayed enter the IP address and Port number of the WLN10/HS/Sonar Server – which is always 169.254.1.1 Port 2000.

Tera Term: New o	onnection	×
	Hos <u>t</u> : <mark>169.254.1</mark> ♥ Hist <u>o</u> ry Service: @ Te <u>l</u> net © <u>S</u> SH © Other	TCP port#: 2000 SSH version: SSH2 v Protogol: UNSPEC v
© S <u>e</u> rial	Port: COM6	*
	OK Can	cel <u>H</u> elp

If Tera Term successfully creates a TCP/IP connection to the WLN10/HS/Sonar Server, then you should see the window below with the word "*HELLO*" displayed.

🦉 169.254.1.1:2000 - Tera Term VT	
<u>File Edit Setup Control Window H</u> elp	
WHELLO*	<u>^</u>
	-

In order to see the commands that you type, you need to configure Tera Term to echo the characters that you type on to the screen. To do this, click Setup>Terminal and you will see the window shown below. Make sure that "Local Echo" is ticked and click the OK Button.

Tera Term: Terminal setup	×
<u>T</u> erminal size 80 × 24 ✓ Term <u>s</u> ize = win size	New-line <u>R</u> eceive: CR → Trans <u>m</u> it: CR → Cancel
Auto window resize	<u>H</u> elp ✓ Local echo Auto switch (VT<->TEK)
Coding (r <u>e</u> ceive) UTF-8 🔹	Coding (tra <u>n</u> smit) UTF-8 •
lo <u>c</u> ale: american	Code <u>P</u> age: 65001

To place the WLN10/HS/Sonar Server in to Command Mode type three dollar signs **\$\$\$** and then press the ENTER key. You should now see the following screen where the text *CMD* has been over typed on the

HELLO text – you are now in Command Mode and can send configuration commands to the WLN10/HS/Sonar Server.



To set the baud rate type the following command and then press the ENTER key.

set uart baudrate xxxx

Where xxxx = the baud rate required i.e. 4800, 9600, 38400, etc.

The WLN10/HS/Sonar Server should respond with an Acknowledgement "AOK" as shown below.



Now it is necessary to save the settings by typing **save** and then pressing the ENTER key, which should cause the following message to be displayed.



You can double check that the new setting has been accepted by typing **get uart** and then pressing the ENTER key, which will display the following information

💆 169.254.1.1:2000 - Tera Term VT	3	
<u>File Edit Setup Control Window H</u> elp		
CHDLLO*\$\$\$ set uart baudrate 38400 AOK		
savel save Storing in config get uartet uart Baudnate=38400		
Hode=0x0 <2.21>		
	Ŧ	

Now you should turn off your WLN10/HS/Sonar Server, wait a couple of seconds and then turn it on again and the new baud rate should now be set.