

Cross Country Wireless, Unit 24562, PO Box 4336, Manchester, M61 0BW, UKEmail (preferred contact method)chrism@crosscountrywireless.netWeb pagehttp://www.crosscountrywireless.netMobile / workshop+44 (0) 7752 391908Fax+44 (0) 1204 410626

## Sentinel 4 HF/VHF SDR receiver set-up FAQs

♂ Cross Country Wireless APRS Messenger Lite v1.07 2019/6/13 20:31:14 UTC									
APRS.FI Cross Country Wire	eless website	APRS TNC Dig	i Tracker – Cros	ss Country Wirele	ess Yahoo group	DUZ7HO So	undModem web	page License	e Help
Received data		Connect to UZ7HD SoundModern by KISS over port 4000					Select and open Comm port		
						×	Communication USB-SERIAL Communication	ns Port (Com3) CH340 (COM4 ns Port (Com5) aud rate 9600 C 192	) 00 © 38400
Text command:		Send text command	My callsign:	callsign: APRS-IS passcode DCALL -1		Connect to server	Close and recheck comm ports		
Disp Mycall	Mycall NOCALL	Myalias WIDE1-1	Unproto	Btext	Beacon every 2	Perm	Cal	Change tone	Help
AT BT name DigiTracker	BT Speed 4800	BT Speed 9600	BT Speed 19200	BT Speed 38400					

First find our the com port number for the receiver. It's possible to use Device Manager or another alternative shown above is to use the CCW APRS Messenger Lite program. This scans all 255 possible com ports to identify them. In this example the receiver uses a CH340 USB IC and it has appeared on Com4.



Open HDSDR and select the sound cards to get the receiver working. Use the USB Audio CODEC for the input sound card.





Select Options [F7], CAT to Radio (OmniRig), OmniRig Setup.

	1 M. C. F.	
	Omni-Rig Setti	ings 🔀
	RIG 1 RIG 2	About
		·
ŝ	Rig type	TS-2000 🔽
	Port	COM 4
	Baud rate	19200 💌
-	Data bits	8
	Parity	None
И	Stop bits	1
,	RTS	High
	DTR	High
	Poll int., ms	500 🔹
	Timeout, ms	4000
		,
	<u>0</u>	<u>)</u> K <u>C</u> ancel
		<u>IK C</u> ancel

Enter the settings above. Use the com port number for your PC as found earlier.



H	DSDR [default]	v2.80 Beta11	ExtIO_Si570.dll@	16bit   SRate: 48	000 > 12000	05: 6.1.7601 SP1	CPU: Intel Core2 Duo	P8400 @ 2.26GHz	RAM: 3032MB	
<u>21</u> :37	:48	2.4 4	Alt in the state		A prove of	Sa and a sa				经保留管理
21:37	(49	and the	CARST 1							
21:37	:50	TYPE T								國際國家的關於
<u>21</u> :37	:51	Canit, 1	10 10 112	The state		Contraction of the		Contraction of the second	a product and	
2 <u>1</u> :37	:52	Jan	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							
<u>21</u> :37	154	Astroph -				the states of				
<u>21</u> :37	:55	A State	the series of the	C. L. Children		ALC: NOT				
21:37	:56	See the s	20.1 1.							
2 <u>1</u> :37	57	Mark 16	· 第二十二					的月日最高级		
<b>4</b> 10	70	05	7010	7015	7020	7025	7030	7035	7040	7045
0 0	5		an againstan							RF < -23 dBFS
-50				ment and an and a second	manne	man and a second	and we have a second of the second of the	****		man han en and
-150										
Pea	k manufanna	Select Inp	out	BB CW D	DIG FreqMg	ir		rfall 🔹 🕨 RBV	/ 23.4 Hz 2	- Avg
	+20 +40	Visualizati	ion	Whats this?		THE REAL PROPERTY.	Spec		Zoom	Speed
1 and 1	7 5 3 S-units	Input Cha	Input Channel Mode for RX Output Channel Mode for RX		0					
13		Output C			✓ sync Rig1 (TS-2000 => On-line)		1995 199	a de la casa		
-1	Squelch	RF Front-	RF Front-End Configuration	sync Rig2 (NO	NE => Rig is not	configured)				
	S9 +29 dB	Calibratio	n Settings	✓ sync to Omni-R	lig					
		Recording	Settings+Scheduler	✓ sync from Omn	ii-Rig		and the state of the	No. TAN		
	SDR-Device [F8]	Digimode	Securigs	sync Tune freq	uency					
- 3	Soundcard [F5]	Misc Optio	ons	<ul> <li>sync LO freque</li> </ul>	ency		1000 2000	3000	4000	5000
1	andwidth [F6]	DDE to H	DSDR	set Converter	Offset					AF -0 UDFS
	Options [F7]	CAT to Ra	adio (Omni-Rig)	Swap CW and	CW-R					
FL	Il Screen [F11]	CAT to H	DSDR	Art		75 when which	Manuan provident of the series of	Law's an annihus		
		TX About HD	ISDR /Help / Lindate	ANotch		100				
	Stop [F2]		and the property of the second			-125				
	Minimize [F3]	13/06/2	2019 21:37:	58		-150				
T	Exit [F4]		CPU H	IDSDR: 13%		_	Wate	rfall 🔹 🕨 RBV	/ 5.9 Hz 1	<ul> <li>Avg</li> </ul>
			1020 1	0001: 10%			spec		100111	speed

With OmniRig setup the sync settings should be set as shown above. The receiver will now show the default start-up frequency of 7024.000 kHz.

If the frequency display flashes different frequencies change the position of the Master/Slave switch.

The receiver is now set up with HDSDR and OmniRig and is now ready to use.

It is also possible to control the receiver frequency with other programs. See the list of programs tested on the Sentinel 4 web page.

Points to watch out for in use...

If a USB port has come out or HDSDR has crashed close both HDSDR and OmniRIg. Usually OmniRig closes when HDSDR does but if HDSDR crashes it leaves OmniRig open and may not connect correctly when HDSDR is restarted.

Once the receiver is set up always use the same USB ports for the receiver USB inputs to avoid changes to the com port numbers.