## SoundModem Installation

This procedure applies to use of the SignaLink USB for VHF Packet. *It assumes that the SignaLink USB has been set up correctly as shown in the SignaLink operation and instruction manual. Particularly with respect to the Windows system sound settings, and working with MMSSTV* 

To change the settings you MUST have the signalink plugged in and working but no radio at this time Go to http://uz7.ho.ua/packetradio.htm and download the file soundmodem95.zip. The 95 refers to the version number. It may be higher in the future.

There are some other files you can download, but that one is the only one you need to run the program. Unzip the file and copy the soundmodem.exe to a convenient folder (<u>I drop it on my Widows Desktop</u>). There is no installation required.

Run the .exe file. You may get a message from your Anti-Virus program. Ignore it.

On the SoundModem screen, click Settings/Devices.

look for the named USB CODEC" in the list..... for both Output and Input devices.

(If you dont have the Signalink on, won't see this choice)

Check - TX rotation

Check - Single channel output

Check - Color waterfall. This can use a lot of computer resources, so you may not want to check

this. It will depend upon your computer's CPU.

Check - Stop waterfall on minimize.

Check - Enabled for KISS Server Port. Do not check AGWPE Server Port.

PTT Port should be NONE. Make sure neither box is checked.

Click OK

SB Audio CODEC ) TX SampleRate 11025 TX corr. PPM 0
TX corr PPM 0
in the second se
RX SampleRate 11025
RX corr. PPM
Priority Highest
☐ Enabled ✓ Enabled
☑ Dual PTT ☑ Swap COM pins for PT

Click – Settings/Modems Check – Default settings Check – KISS Optimization Check – non-AX25 filter Under Modem type ch: A Set Mode toAFSK AX25 1200 bd.

Mardan Chara	gs .					×
Modern filters	ch: A		Modem filt	ers ch: B		
BPF Width	1400	(Show)	BPF Widt	1400	Sh	1011
TXBPF Width	1600	Show	T×BPF W	idth 1600	Sh	iow
LPF Width	650	Show	LPF Width	650	Sh	IOW
BPF Taps	256		BPF Taps	256		
LPF Taps	128		LPF Taps	128		
🔽 Default se	itings		🔽 Defau	lt settings		
PreEmphasis	filter None	- 🔽 AI	PreEmpha	sis filter	lone - F	V AI
✓ KISS Optimization				, Optimization	the second s	
non-AX25	filter		🔽 non-A	<25 filter		
Modern type of	hА		Modem typ	peich: B		
	SK AX.2512	2006d 🚽 👻	de		25 1200bd	-
			-	250		
		ec		50	msec	
		ec	in the second second		msec	
Add. RX 0	pa		Add. RX	(thus a second	pairs	
Add. RX shift	30 Hz		Add. RX s	hift  30	Hz	
Bits Recovery	NONE	<u> </u>	Bits Reco	very NON	E	•
		Ok	Cancel			
SoundModem by U	Z7HO - Ver 0.95b				-	□ ×
SoundModem by U tings View Clear A 1700 🜩 🔶	monitor Calibrat	tion About		V Hold	pointers 🔶	□ ×
tings View Clear	monitor Calibrat	tion About	· ······	V Hold	pointers 🔶	• ×
tings View Clear	monitor Calibrat	tion About	· ······	V Hold	pointers	- x
tings View Clear	monitor Calibrat	tion About DCD threshold	· ······	Hold	pointers	
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tings View Clear	monitor Calibrat	tion About DCD threshold	Revd pkts Revd byt	Hold		

Set Slider to 1700 and click on hold pointers **Leave the SoundModem running**, and start RMS Express. SoundModem can be minimized if you don't care about the waterfall. Set to Packet Winlink Click – Open Session:

					-	- ×
ns	~	Delete	Open Session:	Packet Winlink	~	Help
					-	
	Sen	dae	Recipient	Subject		

Exit Setup Switch to Pe	er-to-Peer Session	Chan	nel Selection	1200 Baud
Conne	- NOZED		Via	
Connection script:		*	Edit script	Add script
Time to next Autoconnect = D	isabled			
*** Starting WL2K packet session. *** Initializing KISS over TCP Host *** Initialization complete *** Ready				

## Set Packet TNC Type: to KISS Set Packet TNC Model: to ACKMODE Set Serial Port: to TCP

Type: KISS		55	~	
Packet	TNC Model:	ACKI	NODE V	AutoC
<b> </b>	Serial Port:	TCP	~	Disabled
тс	P Host/Port	127.0	).0.1	8100
ers	0.4000.0		0.0000.0	
	1200 Ba	ud	O 9600 Ba	bue
TX Delay (Milliseconds):	400	~	300	~
Maximum Packet Length:	128	×	255	~
Maximum Frames:	4	~	7	~
Frack:	2	~	2	~
Persistance:	160	~	224	~
Slot time:	30	~	20	~
Maximum Retries:	5	~	5	~
Transmit Level:	100	A V	100	A V
Enable IPoll				

Under TNC Parameters, select 1200 Baud. Check – Enable IPoll (Bottom of screen)

At this point you should be able to click Start and connect with a gateway. The normal sequence will be to plug in the SignaLink USB and turn it on.

your signalink adjustment settings for winlink

## 1, 3, 7 as if looking at a clock face $\begin{array}{c|c} \hline SignaLink & USB \\ \hline WR & PTT & RX & DLY \\ \hline WR & PTT & RX & DLY \\ \hline Integrated USB Sound Card & 0 \\ \hline \hline D & D & D \\ \hline \end{array}$

Then start the SoundModem and leave it running. Start RMS Express last and use it like you normally would. With RMS Express set up like this, you can switch back and forth between VHF Packet and Winmor without any changes, and not need a TNC for either one.(*Winmor is the HF drivers*)

> Dick – W6CCD 5/26/2016 (Rev. 4) George N0ZED for Clackamas County Or. ARES (CARES) 09/11/016 (rev 5)