# **RemoteHams N1MM+ setup and CW operation.** v1

#### **Introduction**

This document outlines the setting up of N1MM+ to work through the clubs (VARC) IC 7300. Also in this document is an explanation of using N1MM's contesting ability for CW through the remote.

If you would like an explanation of the CW ability of RemoteHams without the use of N1MM+, then please see the document 'RemoteHams CW Operation', which you should find from the same source as this document.

## Setting up the RemoteHams client software

To be able to control the remote station we need to set up a virtual com port for

N1MM+ to talk to. This is very simply done by going to the tab at the top of the client and turning on the Virtual K3 switch and then choosing a COM port. In the example shown here I have chosen COM port 3, but if your PC uses that COM port for something else then choose a different one.

•	1	A Weld	:ome, <b>G00</b> :	IK VOL			MIC -		-0-	) -		CFo
-		× -	Audio	Control Dev	ices	Virtu	al Devices	i i	ayout.			
OF	F	=	ON		OFF			OFF	-			-
								F		-		
	irtu	al HRD	rs Vi	rtual K3	virt	ual Rot	ator 5	Virtua	l WinKey	5		
Ba	Enter text to search										e	Ado
nds Number			Remote S	tation					Ra	dio	City 🔺	Stat
	>	9032	K7CQ>	K7CQX 146.52 fm simplex in PHOENIX						-7100	Phoenix	Až
		164	VARC	VARC FT897 @ G00IK						T857	St Al	He
Pad		164	VARC	VARC IC7300 @ G00IK						-7300	St Al	He
						_		_	_			_

When you come to set up the COM port in N1MM+ you will need to use the same port that you have chosen here.

To activate the virtual comport you will have to re-start the RemoteHams RCForb client again. You should see a small window as it starts telling you that the COM port is being started.

You can then minimise the RemoteHams client and start up N1MM+

## Setting up N1MM+

Again this is a simple process, but like with all these things it only needs to have one setting wrong and nothing will run!

On starting N1MM+, go to the Config tab and select 'Configure Ports, Mode Control, Audio, Other...'

From the 'Port' dropdown choose the COM port that you assigned in the client software (in my case COM 3).

Port     Radio     Digi     CW/Other     Details     @ SO1V     SO2V     SC       COM3     Elecraft K3     I     V     Set     38400,N,8,1,DTR-CW/RTS-PTT,Tx-1     38400,N,8,1,DTR-CW/RTS-PTT,Tx-1     Set       None     None     I     Set     Set     Set     Set     Set       None     None     I     Set     Set     Set     Set     Set       LPT1     Set     Set     Set     Set     Set     Set     Set	ardware	Functio	on Keys	Digital Mode	s Other	Winkey	Mode Control	Antennas	Score Reporting	Broadcast Data	Audio
COM3     Elecraft K3     V     Set     38400,N,8,1,DTR-CW,RTS-PTT,Tx-1       None     None     Set     Set     Set       LPT1     Set     Set     Set     Set       LPT3     Set     Set     Set     Set	Port		Radio		Digi	CW/Other	Details		S01V	) so2v ()	SO2R
None None Image: Set im	сомз	-	Elecrat	ft K3 🚽			Set	3840	0,N,8,1,DTR=CW,R	TS=PTT,Tx=1	
None V None V P Set None V None V P Set LPT1 Set LFT2 Set LFT3 Set	None	-	None	-			Set				
None V None V V Sat None V None V V Sat None V None V V Sat None V None V V Sat LPT1 Sat LPT2 Sat LPT3 Sat	None	-	None	-			Set				
None None Sat   None None Sat   None None Sat   LPT1 Sat   LPT2 Sat   LPT3 Sat	None	•	None	-			Set				
ione Vinne V	None	•	None	-			Set				
Ione Vone Vone Vone Vone Vone Vone Vone V	None	-	None	-			Set				
ione Viane Set	None	-	None	+			Set				
LPT1 Set LPT2 Set LPT3 Set	None	-	None	-			Set				
	LPT2 LPT3						Set				

Then in the 'Radio' dropdown choose 'ElecraftK3' and then tick the CW/Other box.

Then under 'Details' click the 'Set' button, you will then see the following window.

	_
M Com3	As you see in the image to the left, set
38400 ▼ N ▼ 8 ▼ 1 ▼	the Speed to 38400,
DTR (pin 4) RTS (pin 7) Radio Nr	the Parity to N,
PTT v 1 v PTT Delay (msec) I Fooble Both Hardware & Software PTT	DataBits to 8,
30 V PTT via Radio Command SSB Mode	Stop Bits to 1,
Allow ext interrupts prt via Radio Command Digital Mode	DTR (pin 4) to CW,
Two Radio Protocol FootSwitch (pin 6)	RTS (pin7) to PTT,
Radio Polling Rate	Radio to Nr 1,
Normal	PTT Delay to 30 msec
Suggested Elecran K3 Settings: 19200 - 38400, N, 8, 1, Always Off, Always Off	and tick the first three PTT boxes.
	Then 'OK' to close and save the settings and then
Help OK Cancel	'OK' to close the 'Configurer' window.

NOTE: On my machine when I go to close the configurer window I get a series of error messages basically telling me of problems with the External TCPIP and associated things – whatever they are! But the system still works, so at present I am ignoring that set of messages and just pressing OK until they have all gone. Maybe someone can help me understand what that is about?!

You may find that after doing those settings it all just works. For me it didn't, so I closed the PC down and went and did something else! When I returned and started it all up again I found that everything was working, so you might find a restart will get it going.

## Using CW with N1MM+

Actually there is basically nothing to write here! You just use N1MM as you normally would. You will find that the Bandmap will show the correct frequency and clicking around on that will tune the remote accordingly.

All the F keys will work and the CW speed will adjust correctly from the interface as usual.

It would be good to see if we could get the logging to network across a number of operators and then we could run G3V between us!

## **Conclusion**

It's all still early days playing with this, so the above is subject to change and update. Any other thoughts and additions are welcome.

I have started looking and have been successful with the Digimodes and also SSB, but need to work out how to set up a foot switch for the SSB side of things. I will write a separate document for those modes as it is more complex with audio settings.