

Remote Base: Doug Hall RBI-1

wiki.allstarlink.org

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1 Remote Base: Doug Hall RBI-1

Legacy Version - This page is about a legacy version of AllStarLink. See ¹

Obsolete - This page has obsolete information that is likely no longer relevant and will be deleted.

The Doug Hall Electronics Model RBI-1 is frequency agile multi port remote base. It is possible to interface the RBI-1 to AllStar, but only on a PC.

¹ <https://allstarlink.github.io/adv-topics/remotebase>

2 Connections

The RBI-1 uses the first 3 pins of the parallel port and can not be changed. There is no other interface method built into the app_rpt software. If you have been using the pins for anything else, you will need to migrate them to higher pins than the first 3. See Parallel Port GPIO¹

Parallel port pinout is as follows:

PP1 = data

PP2 = clock

PP3 = reset

No buffering is required. Attach directly to the RBI-1's DB9 interface on the correct PP pins.

¹ https://wiki.allstarlink.org/wiki/SimpleUSB_Channel_Driver#Parallel_Port

3 AllStar Settings

In rpt.conf you will need to set lines in the nodes stanza:

```
[29285] ; replace 28295 with your node number
rxchannel = simpleusb/usb_29285 ; Rx audio/signalling channel - replace
needed channel driver and node number

iobase=0x378 ; (for lpt1 others 278-lpt2 3bc-lpt3)
remote=rbi ; Doug Hall RBI-1
functions=functions-remote29285 ; Function list from link (a list of agile
working commands) - use your node number or name and be sure you have other
function calls needed for the node command list.
memory=memory29285 ; 'system stored' radio presets, not required
- use your node number

[functons-remote29285] ;for rbi-1 use your node number or name

0=remote,1 ; Retrieve Radio Stored Memory Channel
1=remote,2 ; Set freq. VFO MMMMM*KKK*0 (Mhz digits, Khz digits,
Offset)
2=remote,3 ; Set tx PL tone PL Tone HHH*D*
3=remote,4 ; Set rx PL tone HHH*D*

40=remote,100 ; Rx PL off
41=remote,101 ; Rx PL on
42=remote,102 ; Tx PL off
43=remote,103 ; Tx PL on
44=remote,104 ; Low Power
45=remote,105 ; Medium Power
46=remote,106 ; High Power

51=remote,5 ; Long status query
52=remote,140 ; Short status query
67=remote,210 ; Send a *
69=remote,211 ; Send a #

;Not Required but noted:

[memory29285] ;Stored presets for radio,
;Format: (recall# xx) = (Freq 6 digits and decimal) (TX
PL Tone ) ( CTCSS Tone ) (ofset + - S ) ( power l m h )
init=224.660,100.0,-1 ;initial freq/mode on start-up/boot - choose something
safe in case of error. Not required. Can be remarked out.
00=224.560,100.0,-1
01=224.460,114.8,-1
02=224.580,131.8,-1
03=223.980,100.0,-1
04=146.940,114.8,-1t
10=442.175,162.2,+1
11=444.475,114.8,+1
12=444.150,100.0,+1
;13=446.500,100.0,s1
```

Tuning a agile remote base has a unchangeable prefix of (star 5) *5

It is more than convenient and desirable to put all of the control functions on your main published node and secure the node/audio on a private node you can disconnect, such as 1999. This makes it dis-connectable for periodic use and prevents you from the need to connect to the node in 'command mode' ie *4xxxxx to control it's agile interface. That can allow you to set it before connecting the node for audio as well. Always review and test macro/scheduler initiations of this before leaving it to run unattended.

Note : There is a security log-in function for remote base control. This not yet documented in the wiki Remote Base¹ section.

3.1 Contributors

- KB8JNM²
- N8EI³
- VE7FET⁴
- WD6AWP⁵
- This page was last edited on 13 May 2025, at 14:06.

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¹ Chapter 5 on page 15

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Version 3, 29 June 2007

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