Connection Notes
RIM_Lite to Bridgecom BCR Repeater

Cable Information:

RIM_Lite (DE-9M)	Signal	BCR (DB-25M)	Notes
1	→→ TX Audio (Aux. Audio) →→		
2	→→ TX Audio (Voice Audio) →→	19	Voice TX*
3	←← COS in ←←	17	Active Low**
4	←← CTCSS in ←←		
5	→→ PTT →→	20	
6	←← RX Audio (Discriminator) ←←	7	7 is De-emph.***
7	N/A		
8	←← Ground →→	25	
9	←← Ground →→		

NOTES:

* Use a 22k series resistor between BCR pin 19 and RIM_Lite pin 2
** Pin 17 MUST be pulled to +V (pin 1) via a pull-up resistor (~10kΩ)
*** Use a voltage divider R1=10KΩ   R2=4.7KΩ   (Shown in inset below)

RXBoost=0
This should yield the following tuning numbers:

RXVoice = 430 for 3KHz
TX_A = 550 for 3KHz

In AllStar set:
carrierfrom=usbinvert
ctcssfrom=no
txmixa=voice
txmixb=tone
Make sure pre-emph./de-emph. are off