



Connection Notes RIM_Lite to Ken. TKR-x50/x51 Repeater

Cable Information:

RIM_Lite (DE-9M)	Signal	TKR-x50 (DB-25M)	Notes
1	→→ TX Audio (Aux. Audio) →→	8	Voice and/or CTCSS
2	→→ TX Audio (Main Audio) →→	9	Voice TX
3	←← COS in ←←	17 ¹	COS – Active Low
4	←← CTCSS in ←←	25 ²	RUS – Active Low
5	→→ PTT →→	16	
6	←← RX Audio ←←	10 ³ 11	10 – Discriminator 11 – De-emphasized
7	N/A		
8	←← Ground →→	7, 12, or 19 ⁴	
9	←← Ground →→		

NOTES:

1. COS input is optional (add carrierfrom=usbinvert)
2. Pin 25 must be programmed for TOR active LOW (I/O-6)
3. Typical use is pin 10 for RX audio which requires de-emph. in software.
4. Pins 7, 12, or 19 can be used for ground.

In AllStar set:

```
carrierfrom=no and ctcssfrom=usbinvert
txmixa=voice
txmixb=tone
```