



Connection Notes RIM_Lite to Yeasu VXR-7000/9000 Repeater

Cable Information:

RIM_Lite (DE-9)	Signal	VXR-7000 / 9000 (DB-25M)	Notes
1	→→ Aux. TX Audio →→	4	Voice TX and/or CTCSS
2	→→ Main TX Audio →→	3	Voice TX Audio
3	←← COS in ←←	11	Active Low ¹
4	←← CTCSS in ←←	10	Active Low ²
5	→→ PTT →→	12	
6	←← RX Audio (Discriminator) ←←	6	Discriminator Audio
7	N/A		
8	←← Ground →→		
9	←← Ground →→	1, 14, 20	

NOTES:

1 - Pin 11 MUST be pulled to +V (pin 2) via a pull-up resistor (4.7k-47kΩ)
This is an active low, open collector output activated on COS ONLY regardless of how the channel is programmed.

2 - OPTIONAL – Pin 10 can be wired for COS & CTCSS active low by following this mod: <https://repeater-builder.com/yvs/vxr-7000-cor.html>
This pin requires NO external pull-up

In AllStar set:
carrierfrom=usbinvert and ctcssfrom=no
(if using option above, ctcssfrom = usbinvert)
txmixa=voice
txmixb=tone

Make sure pre-emph and limiting is turned ON if using pin 4 for voice and OFF if using pin 3.
RX De-emph. will need to be turned ON due to discriminator RX audio.