

Connection Notes

RIM_Lite to Mot. Quantar Repeater

Cable Information:

RIM_Lite (DE-9)	Signal	Quantar (50-pin Telco)	Notes
1	→→ Aux. TX Audio →→	9	CTCSS Encode (Gen Tx. Audio)
2	→→ Main TX Audio →→	5	Voice TX (Tx. Aux. Audio)
3	←← COS in ←←	38	Aux. Out #3
4	←← CTCSS in ←←	37	Aux. Out #2
5	→→ PTT →→	47	Aux. In #9 (Opto -)
6	←← RX Audio (Discriminator) ←←	30	Rx. Aux. Audio
7	→→ PC_OK →→	11	Aux. In #1 (Failsoft)
8	←← Ground →→	7 or 32	
9	←← Ground →→		

**** Connect pins 8 & 22 on Quantar end - +5v to Aux. in #9 (Opto +)

NOTES:

In AllStar set:
 carrierfrom=usbinvert and ctcssfrom=usbinvert
 txmixa=voice
 txmixb=tone

Make sure pre-emph and de-emph. are OFF in AllStar, but ENABLED in the repeater.

Wildcard rules below can be entered in ANY order and can have ANY description.

Serial Number:	<input type="text" value="509CWT0127"/>	Station Name:	<input type="text" value="AH6LE_146.920_1Z"/>
Hardware Platform:	<input type="text" value="QUANTAR"/>		
System Type:	<input type="text" value="CONVENTIONAL"/>	Station Type:	<input type="text" value="ANALOG ONLY"/>
Rx Freq Band 1:	<input type="text" value="VHF_R2 150-174"/> MHz	Tx Freq Band:	<input type="text" value="VHF_R2 150-174"/> MHz
Rx Freq Band 2:	<input type="text" value="NONE"/> MHz		
PA Power Rating:	<input type="text" value="125 Watts"/>		
Power Supply:	<input type="text" value="AC HIGH"/>	Battery Type:	<input type="text" value="NONE"/>
Options			
Wireline:	<input type="text" value="8-WIRE"/>	WildCard:	<input type="text" value="ENHANCED"/>
Freq Ref:	<input type="text" value="INTERNAL - STANDARD"/>	Simulcast Operation:	<input type="text" value="DISABLED"/>
Multi-Coded Squelch:	<input type="text" value="DISABLED"/>	Phone Patch Interface:	<input type="text" value="DISABLED"/>
Scanning Receiver:	<input type="text" value="DISABLED"/>	Main/Standby:	<input type="text" value="DISABLED"/>
External Wattmeter:	<input type="text" value="NONE"/>		
<input type="button" value="Help"/> <input type="button" value="Validate Configuration"/>			

Wireline:	<input type="text" value="TRC"/>
Wireline Operation:	<input type="text" value="WIRE FULL DUPLEX"/>
Remote Control Type:	<input type="text" value="TRC"/>
Equalization:	<input type="text" value="ENABLED"/>
Comparator:	<input type="text" value="NONE"/>
Status Tone:	<input type="text" value="DISABLED"/>
Wireline Squelch:	<input type="text" value="DISABLED"/>

Wildcard Input:

Channel		Aux Input	HW Input Type	Active Level	Group Definition
Binary Group:	NONE	1	Transistor Input	LO	
Access Code Table		2	Transistor Input	LO	
Binary Group:	NONE	3	Transistor Input	LO	
		4	Transistor Input	LO	
		5	Transistor Input	LO	
		6	Transistor Input	LO	
		7	Transistor Input	LO	
		8	Transistor Input	LO	
		9	Optocoupler Input	HI	
		10	Optocoupler Input	HI	
		11	Optocoupler Input	HI	
		12	Optocoupler Input	HI	

Wildcard Output:

Channel		Aux Output	HW Output Type	Active Level	Group Definition
Binary Group:	NONE	1	Transistor	LO	
Multi-Coded Squelsh		2	Transistor	LO	
Binary Group:	NONE	3	Transistor	LO	
Access Code Table		4	Transistor	LO	
Binary Group:	NONE	5	Transistor	LO	
		6	Transistor	LO	
		7	Relay	LO	
		8	Relay	HI	
		9	Relay	HI	
		10	Relay	HI	

Discriminator Audio Enable: (Necessary Rule #1)

Description: RC210-1 TABLE 1 OF 6 Jump to Table: 1

State And Condition Settings

State: RX1 LOCK Cond: State: Cond: State:

Action: RX1+AUXRX ON Inaction: NULL

Help Add Table Set To Default Previous Table Next Table

Delete Table Programming Rules

External PTT/Audio Enable – Aux. In #9 (Pin 47): (Necessary Rule #2)

Description: TABLE 1 OF 3 Jump to Table:

State And Condition Settings

State:	Cond:	State:	Cond:	State:
<input type="text" value="INPUT 9"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Action

<input type="text" value="AUXTX-TX ON"/>	<input type="text"/>
<input type="text" value="KEY FROM WL"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Inaction

<input type="text" value="AUXTX-TX OFF"/>	<input type="text"/>
<input type="text" value="DEKEY FROM WL"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

COS to Output #3 (Pin 38): (Necessary Rule #3)

Description: TABLE 2 OF 3 Jump to Table:

State And Condition Settings

State:	Cond:	State:	Cond:	State:
<input type="text" value="RX QUAL MET"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Action

<input type="text" value="SET OUTPUT"/>	<input type="text" value="3"/>
<input type="text"/>	<input type="text"/>

Inaction

<input type="text" value="CLR OUTPUT"/>	<input type="text" value="3"/>
<input type="text"/>	<input type="text"/>

CTCSS to Output #2 (Pin 37): (Necessary Rule #4)

Description: TABLE 3 OF 3 Jump to Table:

State And Condition Settings

State:	Cond:	State:	Cond:	State:
<input type="text" value="RX PL DETECT"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Action

<input type="text" value="SET OUTPUT"/>	<input type="text" value="2"/>
<input type="text"/>	<input type="text"/>

Inaction

<input type="text" value="CLR OUTPUT"/>	<input type="text" value="2"/>
<input type="text"/>	<input type="text"/>

Internal Repeat Disable- Aux. In #1 (Pin 11): ***OPTIONAL if internal repeat disabled***

Description: TABLE 4 OF 4 Jump to Table:

State And Condition Settings

State:	Cond:	State:	Cond:	State:
<input type="text" value="INPUT 1"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Action

<input type="text" value="RPTR KNOCKDOWN"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

Inaction

<input type="text" value="RPTR SETUP"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>