

# Application Note

AN #: 198

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Page 1 of 1

**PYRAMID MODEL #:** SVR-200 / SVR-250

**RADIO MODEL:** Maxon SM4150

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

DEPT. HEAD \_\_\_\_\_

Connections:	SVR	Function	Radio	
	Black/Shield	Ground	Chassis Ground	
	White	Tx Audio Out	Mic Connector Pin 4	Mic Hi
Enable/disable the	Blue	Remote enable/disable	PL5 Pin 2	Option
SVR with the Aux	Green	PTT Out	Mic Connector Pin 3	PTT
Button (1) on the	Red	Switched B+	IC6 Input	
Maxon Front Panel	Yellow	Rx Audio In	PL3 Pin 1	Det Out
	Violet	COR	IC105 Pin 36	Unmute
	Brown	Local Mic In	IC 113 Pin 1	
	Grey	On Air Detect	N/C	

<b>SVR</b>	JP1	[-]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	Low
<b>Jumpers:</b>	J1	[In]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[In]	Local mic PTT loop		Rx Audio Response:	Flat
	J6	[Out]	Local Mic Sensitivity			
	J7	[Out]	Rx Sensitivity			
	J8	[Out]	Pull up resistor			
	J9	[In]	MCOR Pull up resistor			

## Additional Modifications (SVR-200):

1. Change R76 (Pull up resistor) from 10K to 1K
2. Ensure J8 is removed

## Additional Modifications (SVR-250):

1. Change R26 (Pull up resistor) from 10K to 1K
2. Ensure J8 is removed

## Additional Modifications (Radio):

1. The Maxon mobile is not able to transmit while the mic is on hook. If on hook transmit is desired with the SVR add the following circuit in the microphone between the hookswitch wire (yellow) and the PCB located at the base of the mic:

