

Application Note

AN #: 209B

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: iDEN M Series Mobile - Trunk Mount RF
ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	SVR	Function	Radio
	Black/Shield	Ground	P001 pin 10 {DB25 connector}
	White	Tx Audio Out	P001 pin 23
	Blue	Remote enable/disable	External Switch to Ground
	Green	PTT Out	P001 pin 9
	Red	Switched B+	P001 pin 14
	Yellow	Rx Audio In	P001 pin 11
	Violet	COR	Pin 18 of U908 (Rathion - RA8170T)
	Brown	Local Mic In	N/C
	Grey	On Air Detect	N/C

SVR	JP1	[-]	Remote Enable	SVR	Mobile COR Polarity:	High
Jumpers:	J1	[Out]	Tx audio level	Program:	Mobile Type:	Conventional
	J2	[In]	Tx audio impedance		On-Air Polarity:	High
	J4	[Out]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[In]	Local mic Sensitivity			
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[Out]	MCOR pull up resistor			

Additional Modifications (SVR-200 / SVR-250 / SVR-300):

1. Remove Q8. Run a jumper from the Base of Q8 to the Collector of Q8. (provides active high PTT)

Additional Modifications (Radio):

1. Drill a hole in the front cover of the iDEN M Series mobile to run the interface cable into the unit. Secure the cable with strain relief.

Notes:

1. This interface requires the use of an external speaker on the iDEN radio. If you use the telephone-handset on the radio, you will need to replace it into the cradle before the repeater will operate from base to portable.