

Application Note

AN #: 232

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
RADIO MODEL: M/A Com Orion EDACS Dash Mount, Single Band
ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Order the Pyramid Orion interface cable Part # 7500-06-1014 for the SVR-200

Connections:	SVR	Function	Radio
	Black/Shield	Ground	DB37 Pin 7 (Ground)
	White	Tx Audio Out	DB37 Pin 11 (Mic Hi)
	Blue	Remote enable/disable	DB37 Pin 9 (Opt 2)
	Green	PTT Out	DB37 Pin 21 (Inp 1)
	Red	Switched B+	DB37 Pin 25 (Sw B+)
	Yellow	Rx Audio In	DB37 Pin 16 (XTONDEC)
	Violet	COR	DB37 Pin 22 (External Mute)
	Brown	Local Mic In	N/C
	Grey	On Air Detect	DB37 Pin 23 (Inp 2)

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

Additional Modifications (SVR-200 / SVR-250 / SVR-300): None. Ensure local mic repeat is disabled unless RCSE-200 remote channel selector is installed in the Orion Aegis scrambler socket.

Additional Modifications (Radio):

Note: You will need ver 13 or greater of the Ericsson PC software and flash code v 22.x or greater.

The following are found under Options (F7), Orion (F2), Aux I/O (F4):

1. Program *External Mute*, active high *output 1*.
2. Program *Aux Input 1* for *PTT*.
3. Program *Aux Output 2*: Custom, Active low, Output 2, Repeat Y. Custom pattern all dashes (-)=1.
4. Program One of the soft keys for *AUX 2* (F7 Option, F2 Orion, F7 Keypad) to enable/disable the repeater from the radio front panel.
5. Run a jumper wire from Pin 2 of HC2 (RF PA) to Pin 5 of J703 (input 2). This modification brings TX 8V to the DB-37 on pin 23.