

# Application Note

AN #: 206

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Page 1 of 1

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

**RADIO MODEL:** Ericsson Orion 800 MHz EDACS trunking

**ENGINEER:** W. Carlin

**APPROVAL INITIALS**

ENGINEER \_\_\_\_\_

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

Connections:	SVR	Function	Radio	DB25 Connector {Ctrl Head Opt}
	Black/Shield	Ground	Pin 7	Ground
	White	Tx Audio Out	Pin 11	Mic Hi
	Blue	Remote enable/disable	Pin 9	Opt 2 (See Notes 3 & 4)
	Green	PTT Out	Pin 21	Inp 1 (See Note 2)
	Red	Switched B+	Pin 25	Sw B+
	Yellow	Rx Audio In	Pin 13	Vol Hi
	Violet	COR	Pin 22	Opt 1 (See Note 1)
	Brown	Local Mic In	N/C	
	Grey	On Air Detect	Pin 15	Tx Sense (See note 5)

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

**Additional Modifications (SVR-200 / SVR-250):** None.

## Additional Modifications (Radio):

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

In the DOS based software, 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 softkeys for Aux 2 (F7 Option, F2 Orion, F7 keypad) to enable/disable the repeater from the radio front panel.
5. Add a jumper from the cathode of CD202 (Tx LED) to connector J203 pin 18 (unused) on the control head main logic PCB (CMC-638). On the remote interface adapter PCB (NQ2-4882) remove the jumper from position "A" between J1 pin 15 and J3 pin 15 and add a jumper from J1 pin 15 to J2 pin 18 to connect the Tx LED to the SVR-200 grey wire (Tx sense).