

Application Note

AN #: 206

DATE: 9-Sep-99

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PYRAMID MODEL #: SVR-200 / SVR-250 / SVR-300
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) |

| | | | | | | |
|-----------------|-----|-------|-----------------------|-----------------|----------------------|----------|
| SVR | JP1 | [-] | Remote Enable | SVR | Mobile COR Polarity: | High |
| Jumpers: | J1 | [Out] | Tx audio level | Program: | 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 / SVR-300): 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 positoin "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).