

Application Note

AN #: 232

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PYRAMID MODEL #: SVR-200 / SVR-250

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 # 7500-03-1014 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): 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 *AUX2* (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.