

Application Note

AN #: 208E

DATE: 02-Jun-11

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

RADIO MODEL: Motorola CDM1250/1550

ENGINEER: C Carbjal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Order the Pyramid CDM interface cable Part # 7501-10-1093 for the SVR-200

Order the Pyramid CDM interface cable Part # 7501-10-1293 for the SVR-250 & SVR-300

| Connections: | SVR | Function | Radio |
|--------------|--------------|-----------------------|-----------------------------|
| | Black/Shield | Ground | Accessory Connector Pin 7 |
| | White | Tx Audio Out | Accessory Connector Pin 2 |
| | Blue | Remote enable/disable | Accessory Connector Pin 14* |
| | Green | PTT Out | Accessory Connector Pin 3 |
| | Red | Switched B+ | Accessory Connector Pin 13 |
| | Yellow | Rx Audio In | Accessory Connector Pin 11 |
| | Violet | COR | Accessory Connector Pin 4 |
| | Brown | Local Mic In | N/C |
| | Grey | On Air Detect | Accessory Connector Pin 8 |

| | | | | | | |
|-----------------|-----|-------|-----------------------|-----------------|----------------------|--------|
| 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: | Low |
| | 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 | | Local Mic Repeat | No |
| | J7 | [Out] | Receive sensitivity | | | |
| | J8 | [+] | Pull up resistor | | | |
| | J9 | [Out] | COR Pull up resistor | | | |

Additional Modifications (SVR-200/250/300): * Note: If you are using a RCS-200 with this configuration, you will need to follow the application note for the RCS-200 and connect an external switch to ground of remote enable line. Pin 14 of the accessory connector will be re-programmed as a channel select line input.

Additional Modifications (Radio):

- From the Motorola CPS --> **Radio Configuration**, program the **Accessory Pins**:
Pin #3 - External Mic. PTT (input) *Active Low*
Pin #4 - PL and CSQ Detect/Talkgroup Detect (output) *Active Low*
Pin #8 - Clear To Send (output) *Active Low*
Pin #14 - Auxiliary Control #1 (output) *Active Low* * (see note)
- From the Motorola CPS --> Tree View --> Conventional Buttons, Program button F4 "Aux Control 1". This assigns button F4 of the radio front panel to enable the SVR when pressed.
- From the Motorola CPS --> **Radio Configuration**, program the **Accessory Configuration**:
 - RX Audio Type = Flat Audio
 - Ext. PTT Audio Source = Ext Mic Audio

IF YOU ARE USING A PYRAMID FACTORY CABLE, remove the loop from Pin 15/16 of the 16 pin connector.