

# Application Note

AN #: 307

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**PYRAMID MODEL #:** SVR-200 / SVR-500 / SVR-250 / SVR-300

**RADIO MODEL:** Tait TM9400 Series P25

**ENGINEER:** C. Carbajal

**APPROVAL INITIALS**

ENGINEER

DEPT. HEAD

Connections:	SVR	Function	Radio (Auxillary Connector DB15)
	Black/Shield	Ground	Pin 15
	White	Tx Audio Out	Pin 7
	Blue	Remote enable/disable	Pin 10
	Green	PTT Out	Pin 12
	Red	Switched B+	Pin 8
	Yellow	Rx Audio In	Pin 13
	Violet	COR	Pin 2
	Brown	Local Mic In	N/C
	Grey	On Air Detect	Pin 9
	Black/White	Emergency	Pin 5 (SVR-250/300 ONLY)

<b>SVR</b>	JP1	[+]	Remote Enable	<b>SVR</b>	Mobile COR Polarity:	Low
<b>Jumpers:</b>	J1	[Out]	Tx audio level	<b>Program:</b>	Mobile Type:	Conv / Trunk
	J2	[Out]	Tx audio impedance		On-Air Polarity:	Low
	J4	[Out]	Local mic audio loop		Tx Audio Response:	Pre-Emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	De-Emp
	J6	[Out]	Local Mic Sensitivity		Priority Sampling	~ 0.75 Sec.
	J7	[Out]	Rx Sensitivity		Local Mic Repeat	Disabled
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR Pull up resistor			

**Additional Modifications (SVR-200 / SVR-250 / SVR-300):** None.

## Additional Modifications (Radio):

- In the TM9400 Programming Application:
  - In the **Global Parameters / Programmable I/O / Digital** screen
    - Set AUX\_GPI1, Mode = *All*, Direction = *Input*, Action = *External PTT 1*, Active = *Low*
    - Set AUX\_GPIO4, Mode = *All*, Direction = *Output*, Action = *F3 Key Status*, Active = *High*, Signal = *Latching*
    - Set AUX\_GPIO5, Mode = *All*, Direction = *Output*, Action = *Signalling Audio Mute Status*, Active = *Low*
    - Set AUX\_GPIO6, Mode = *All*, Direction = *Output*, Action = *Transmission Status*, Active = *Low*
    - Set AUX\_GPI2, Mode = *All*, Direction = *Input*, Action = *Enter Emergency Mode*, Active = *Low*
  - In the **Global Parameters / Programmable I/O / Audio** screen
    - Set RX/PTT Type **RX**, Tap Out = *R10*, Tap Out Type = *D*, Tap Out Unmute = *Except on PTT*
    - Set RX/PTT Type **EPTT1**, Tap In = *T3*, Tap In Type = *A*, Tap In Unmute = *On PTT*
  - In the **Trunked Features and/or Conventional Features / Key Settings** screen
    - Program one desired key = *Action Digital Output Line*. This will set one key as the remote enable of the SVR.
  - In the **Global Parameters / PTT / External PTT (1)** screen
    - PTT Transmission Type = *Voice*
    - Audio Source = *Audio Tap In*