

Application Note

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AN #: 303

DATE: 13-Aug-2014

PYRAMID MODEL #: SVR-200 / SVR-250

RADIO MODEL: Harris Unity XGM-100 w/ CH-100 Ctrl Head

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER _____

DEPT. HEAD _____

Order Pyramid Interface cable Part # 7500-10-1047 when connecting to the SVR-200

Order Pyramid Interface cable Part # 7500-10-1247 when connecting to the SVR-250 or SVR-P250

Connections:	SVR	Function	Radio DB44 Accy Connector	
	Black/Shield	Ground	Pin 8	
	White	Tx Audio Out	Pin 27	
	Blue	Remote enable/disable	Pin 10	* Future Support * * See Note *
	Green	PTT Out	Pin 18	
	Red	Switched B+	Pin 28	
	Yellow	Rx Audio In	Pin 17	
	Violet	COR	Pin 2	
	Brown	Local Mic Audio	N/C	
	Grey	On Air Detect	Pin 29	** Future Radio Firmware Support **

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	[Out]	Local mic audio loop		Tx Audio Response:	De-emp
	J5	[Out]	Local mic PTT loop		Rx Audio Response:	Pre-Emp
	J6	[Out]	Local mic Sensitivity		Local Mic Repeat	No
	J7	[In]	Rx Sensitivity			
	J8	[+]	Pull up resistor			
	J9	[In]	MCOR pull up resistor			
	J11	[Out]	Tx Audio Level **			

Additional Modifications (SVR-200/SVR-250): ** On older SVR-200 units without J11, install J1 & J2 instead.

Additional Modifications (Radio):

1. Under *External IO Options*, Program *Output Control Line 1* to *External Mute*, active *high*.
2. Program *Aux Input 1* for *PTT*.

* The CH 100 control head does not currently support assigning a button or menu to turn the SVR on and off. To use an external source, cut the **Blue** remote enable loop located at the DB-44 of the factory cable and connect the **White Marked Blue** lead to your remote enable switch.

** If using the factory interface cable, on air detect is connected to pin 29 with an internal pull up to regulated 5 volts. There is no firmware support for On Air Detect coming out of the XGM-100 on Pin 29. This line should go high if the radio is in TX and is used for trunking applications. Because this feature is not yet available in the radio firmware, set the SVR to Radio Type = Conventional.