

Application Note

AN #: 523A

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PYRAMID MODEL #: Merlin / 2012 / 2016

RADIO MODEL: Ericsson Orion Single Band

ENGINEER: C. Carbajal

APPROVAL INITIALS

ENGINEER

DEPT. HEAD

Connections:	Pyramid	Function	Radio {DB-25 Connector} { Cntrl Head Option}
	Black/Shield	Ground	Pin 7 (Ground)
	White	Tx Audio Out	Pin 11 (Mic Hi)
	Blue	On Air Detect	Pin 15 (On Air Detect)
	Green	PTT Out	Pin 21 (Inp 1)
	Red	Switched B+	Pin 25 (Sw B+)
	Yellow	Rx Audio In	Pin 16 (XTONDEC)
	Violet	COR	Pin 22 (External Mute)
(Optional)	Brown	Audio Mute Out	N/C
(Optional)	Grey	Mic Mute/ Chan Chng	N/C

2012/Merlin Jumpers: J1 [Out] Tx audio level
J2 [Out] Local PTT Loop

Pyramid Program: Mobile COR Polarity: High
Mobile Type: Conv.
On-Air Polarity: Low

2016 Jumpers: J1 [Out] Local PTT Loop
J2 [Out] Tx audio level

Additional Modifications (Merlin / 2012 / 2016):

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. Add a jumper from the cathode of CD202 (Tx LED) to connector J203 pin 18 (unused) on the control head of the main logic PCB (CMC-638). On the remote interface adapter PCB (NQ2-4882) remove the jumper from position "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 Pyramid grey wire (On air Detect).