

Type Acceptance Test Report

Broad Band PCS Transceiver

FCC ID: DNY0A5DATA1900

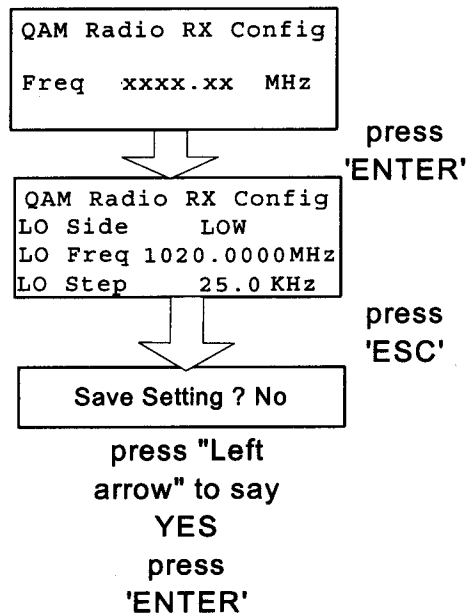
FCC Rule Part: 24E

ACS Report Number: 03-0096-24TA

Manufacturer: EMS Wireless
Model: DataNex

Alignment Procedures

3.4.21 QAM Radio RX Configure



Function	Settings	Summary
FREQ	2300.00MHz	Displays the frequency of the receiver and allows the user to make frequency changes.
LO Side	LOW HIGH	LOW: LO freq is less than carrier freq. High: LO freq is greater than carrier freq.
LO Freq	2370.00 MHz	
LO Step	25.0 KHz	Programming frequency step size

3.5 NMS/CPU PC Configuration Software

The NMS/CPU card is configured with a Windows-based PC software package. The hardware is accessed through the serial port on the NMS card back panel. See the manual for EMS Wireless DATA-20 *Configuration Software* for more information.

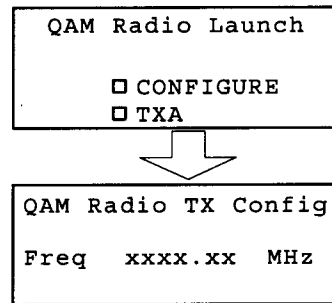
3.6 Up/Down Converter: Frequency Adjust

3.6.1 TX Frequency Adjust

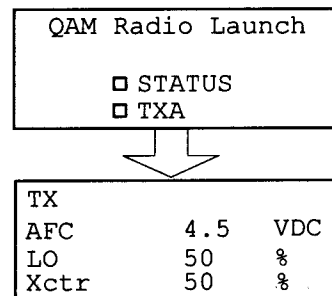
It is possible to change the carrier frequency of the transmitter via the front panel.

Before changing frequency ensure that this is carried out in a controlled environment with test equipment to ensure that you are transmitting the defined frequency:

1. Power-up the unit and navigate the LCD screens as follows:



1. Using the cursors, change to the desired frequency. Press ENTER and the TX will most likely lose AFC LOCK.
2. Navigate the LCD screens to monitor the AFC voltage as follows



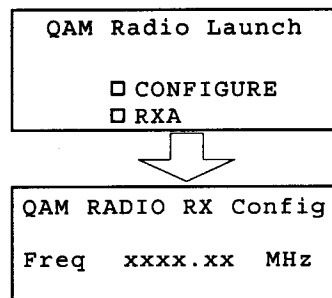
1. Ensure that the voltage reads 0.5 to 9.5 +/- .25 VDC.
2. The TX should achieve AFC LOCK and the operation is successful.

3.6.2 AFC Level—RX

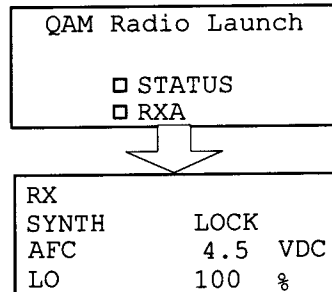
It is possible to change the operating frequency of the receiver via the front panel.

Before changing frequency ensure that this is carried out in a controlled environment with test equipment to ensure that you are transmitting the defined frequency:

1. Power-up the unit and navigate the LCD screens as follows:



1. Using the cursors, change to the desired frequency. Press ENTER and the RX will most likely lose AFC LOCK.
2. Navigate the LCD screens to monitor the AFC voltage as follows



3. Ensure that the voltage reads 0.5 to 9.5 +/- .25 VDC.
4. The RX should achieve AFC LOCK and the operation is successful.

